

NTSB Public Hearing Re: PG&E Gas Transmission Pipeline - DAY 2

Page 330	Page 33
NATIONAL TRANSPORTATION SAFETY BOARD	TECHNICAL PANEL FOR AFTERNOON SESSION Ravi Chhatre, Karl Gunther, Matt Nicholson
OFFICE OF ADMINISTRATIVE LAW JUDGES	WITNESSES FOR AFTERNOON SESSION
	Dennis Lee, CPUC, Sr. Utilities Engineer,
	Supervisor
Public Hearing in the matter of:	Richard Clark, CPUC, Director, Consumer Protectio
	and Safety Division
Pacific Gas and Electric DAY 2 OF 3	Julie Halligan, CPUC, Deputy Director, Consumer Protection and Safety Division
Natural Gas Transmission	Linda Daugherty, PHMSA, Deputy Associate Administrator for Policy and Program
Pipeline	Zach Barrett, PHMSA, Director, State Programs
	Paul Metro, NAPSR, Vice-Chair
NTSB Board Room and Conference Center 490 L'Enfant Plaza Washington, D.C. 20024	
Wednesday, March 2, 2011	
9:02 A.M. TO 4:17 P.M.	
BEFORE THE NTSB PANEL:	
Deborah A. Hersman, Chairman, Board of Inquiry Mark R. Rosekind, Member Christopher A. Hart, Vice Chairman Robert Sumwalt, Member Earl F. Weener, Ph.D., Member	
Page 331 FECHNICAL BOARD FOR MORNING SESSION:	Page 3
Dana Sanzo, Bob Trainor	
WITNESSES FOR MORNING SESSION:	2 * * * P R O C E E D I N G S * * *
Dennis Haag, City of San Bruno, Fire Chief	з 9:02 А.М.
James (Jim) Narva, NASFM, Executive Director	4 MARCH 2, 2011 - DAY 2
Peter Lidiak, API, Pipeline Director	5 CHAIRMAN HERSMAN: Good morning, and
Terry Boss, INGAA, Sr. VP Environment Safety and Operations	6 welcome back to Day 2 of our public hearing of Sa
Carl Weimer, Pipeline Safety Trust, Executive	7 Bruno. We'll begin with our third panel on public
Director Aaron Rezendez, PG&E, Sr. Program Manager, Safety	8 awareness.
ALLON NELENGEL, FURD, DI. FLOULAN MANAGET, DATETV	o uwuronoss.
Health and Claims	9 Ms. Ward, will you please swear in the
Health and Claims	
Health and Claims	9 Ms. Ward, will you please swear in the10 witnesses.
Health and Claims	 9 Ms. Ward, will you please swear in the 10 witnesses. 11 HEARING OFFICER WARD: Thank you, Made
Health and Claims	 9 Ms. Ward, will you please swear in the 10 witnesses. 11 HEARING OFFICER WARD: Thank you, Mad 12 Chairman. For the record, we have Chief Haag,
Health and Claims	 Ms. Ward, will you please swear in the witnesses. HEARING OFFICER WARD: Thank you, Made Chairman. For the record, we have Chief Haag, Mr. Jim Narva, Mr. Peter Lidiak, Mr. Terry Boss,
Health and Claims	 Ms. Ward, will you please swear in the witnesses. HEARING OFFICER WARD: Thank you, Made Chairman. For the record, we have Chief Haag, Mr. Jim Narva, Mr. Peter Lidiak, Mr. Terry Boss, Mr. Carl Weimer, Mr. Aaron Rezendez, and
Health and Claims	 Ms. Ward, will you please swear in the witnesses. HEARING OFFICER WARD: Thank you, Made Chairman. For the record, we have Chief Haag, Mr. Jim Narva, Mr. Peter Lidiak, Mr. Terry Boss, Mr. Carl Weimer, Mr. Aaron Rezendez, and Ms. Annmarie Robertson already seated.
Health and Claims	 Ms. Ward, will you please swear in the witnesses. HEARING OFFICER WARD: Thank you, Made Chairman. For the record, we have Chief Haag, Mr. Jim Narva, Mr. Peter Lidiak, Mr. Terry Boss, Mr. Carl Weimer, Mr. Aaron Rezendez, and Ms. Annmarie Robertson already seated. If I could have the witnesses please
Health and Claims	 Ms. Ward, will you please swear in the witnesses. HEARING OFFICER WARD: Thank you, Made Chairman. For the record, we have Chief Haag, Mr. Jim Narva, Mr. Peter Lidiak, Mr. Terry Boss, Mr. Carl Weimer, Mr. Aaron Rezendez, and Ms. Annmarie Robertson already seated. If I could have the witnesses please rise to be sworn in.
Health and Claims	 Ms. Ward, will you please swear in the witnesses. HEARING OFFICER WARD: Thank you, Mada Chairman. For the record, we have Chief Haag, Mr. Jim Narva, Mr. Peter Lidiak, Mr. Terry Boss, Mr. Carl Weimer, Mr. Aaron Rezendez, and Ms. Annmarie Robertson already seated. If I could have the witnesses please rise to be sworn in. DENNIS HAAG,
	 Ms. Ward, will you please swear in the witnesses. HEARING OFFICER WARD: Thank you, Mada Chairman. For the record, we have Chief Haag, Mr. Jim Narva, Mr. Peter Lidiak, Mr. Terry Boss, Mr. Carl Weimer, Mr. Aaron Rezendez, and Ms. Annmarie Robertson already seated. If I could have the witnesses please rise to be sworn in.
Health and Claims	 Ms. Ward, will you please swear in the witnesses. HEARING OFFICER WARD: Thank you, Mada Chairman. For the record, we have Chief Haag, Mr. Jim Narva, Mr. Peter Lidiak, Mr. Terry Boss, Mr. Carl Weimer, Mr. Aaron Rezendez, and Ms. Annmarie Robertson already seated. If I could have the witnesses please rise to be sworn in. DENNIS HAAG,
Health and Claims	 Ms. Ward, will you please swear in the witnesses. HEARING OFFICER WARD: Thank you, Mada Chairman. For the record, we have Chief Haag, Mr. Jim Narva, Mr. Peter Lidiak, Mr. Terry Boss, Mr. Carl Weimer, Mr. Aaron Rezendez, and Ms. Annmarie Robertson already seated. If I could have the witnesses please rise to be sworn in. DENNIS HAAG, JAMES NARVA,

(1) Page 330 - Page 333

	Page 334		Page 336
1	AARON REZENDEZ,	1	with a research group.
2	and ANNMARIE ROBERTSON,	2	HEARING OFFICER WARD: And, Mr. Weimer?
3	called as a witness in this case,	3	CARL WEIMER: Yes, I'm Carl Weimer. I'm
4	having been first duly sworn	4	the executive director of the Pipeline Safety
5	upon their oath, testified as follows:	5	Trust. The Trust is the only national non-public
6	HEARING OFFICER WARD: And starting with	6	interest group that focuses on pipeline safety.
7	Chief Haag, if you could please state your full	7	I'm also an elected member of the
8	name, title and a brief description of your duties	8	Whatcom County Council, so I'm the an elected
9	and responsibilities.	9	public official for the public awareness efforts.
10	DENNIS HAAG: Good morning. My name is	10	HEARING OFFICER WARD: Mr. Rezendez.
11	Dennis Haag, Fire Chief of the City of San Bruno.	11	AARON REZENDEZ: Hello. I'm Aaron
12	I have over 30 years experience in Fire Service,	12	Rezendez. I'm the senior program manager for
13	became fire chief in the City of Millbrae, a city	13	Public Safety at Pacific Gas & Electric Company.
14	just south of San Bruno, in 2000. And was	14	I've been in this position for five years. I've
15	services [inaudible] and became chief of San Bruno	15	worked in a variety of capacities within
16	in 2008.	16	communications here at PG&E for the past nine
17	I have a Fire Chief certification in the	17	years. I have a Bachelor of Science in geology
18	State of California and a Bachelor's degree in	18	from the University of Missouri, and I have a
19	economics from San Francisco State. Thank you.	19	master's in civil environmental engineering from
20	HEARING OFFICER WARD: Mr. Narva.	20	Stanford University.
21	JAMES NARVA: Good morning. I'm Jim	21	HEARING OFFICER WARD: And,
22	Narva. I'm the executive director for the	22	Ms. Robertson.
-	Dec. 225		Dere 227
	Page 335		Page 337
	National Association of State Fire Marshals.	1	ANNMARIE ROBERTSON: I'm Annmarie
	Previous to that I was Wyoming State Fire Marshal,		Robertson. I am a program manager for the
3	and I've been with the Fire Service for about 25		Business Office of Program Development. Prior to
4	years.		coming to PHMSA, I worked with the State of
5	5		Indiana where I managed the Gas Pipeline Safety
6		6	Program for several years.
7		7	I also served as Chair of the National
	I'm Fire Director for the American Petroleum		Association of Pipeline Safety Representatives
	Institute, API, a little over ten years, working		until I transitioned over to PHMSA. My work at
10	in refining, fuels, and pipeline-related issues,		PHMSA, I focus on damage prevention, public
11		11	
12			throughout the country to advance those
13			initiatives.
14	TEPPV ROSS Vac Pm Tarmy Rood	14	HEARING OFFICER WARD: Thank you.
15	Senior Vice President of Environment, Safety and	15	Madam Chairman, the witnesses have been
16	-	16	Madam Chairman, the witnesses have been sworn in and qualified, and they're ready to be questioned by Ms. Sanzo.

- **19** the Northern 48 here.
- 20 And I've been with INGAA for around 18
- 21 years working in various areas. Before that I had
- 22 19 years with a pipeline company, then one year

CHAIRMAN HERSMAN: Thank you, Ms. Ward.

Ms. Sanzo, please begin questioning from

MS. SANZO: Chief Haag, prior to

22 September 9th, what natural gas pipelines were you

18

19

21

20 the Technical Panel.

	a Gas Transmission ripenne - DAT 2	1	
	Page 338		Page 340
1	aware of within San Bruno?	1	orientation training, is really meant to just give
2	CHIEF HAAG: The fire department was	2	you an idea of the electrical side and the gas
3	only aware we thought that the gas that was	3	side, you know, kind of their they go through
4	moving through the system serviced the City of San	4	transmission lines, the go through the
5	Bruno. We did not know that there was a	5	distribution system is, what to do with meters, so
6	transmission line through the city until after the	6	forth and so on. So it's really a a basic
7	incident.	7	course of [inaudible]. In the case of a gas
8	MS. SANZO: Were you aware of the two	8	leak they'll deny entry, cordon off the area, look
9	other transmission pipelines that run parallel to		for any potential emission sources and so forth,
	line 132?	10	and obviously contact PG&E.
11	DENNIS HAAG: During orientation PG&E	11	MS. SANZO: What methods do
12	had run through a regular orientation, it was	12	organizations use to actively provide outreach to
	mentioned that there are two pipelines that run		the Fire Service?
	the Peninsula, pipelines that go essentially	14	DENNIS HAAG: I'm sorry? I missed that
	through the freeway corridors of 101 and 280.		first part.
16	MS. SANZO: What information do you	16	MS. SANZO: What methods do you think
17	believe is critical for firefighters for	17	would be effective to provide information to the
	responding safely to natural gas incidents?		Fire Service?
19	DENNIS HAAG: Well, on a routine basis	19	DENNIS HAAG: Well, there's obviously
20	we work with PG&E on typical gas leak halls,	20	some sources, and some are here at the desk with
	electrical lines down, old fires, transformed	1	me, we do use a Public Pipeline Awareness video
	fires, and so forth and so on. So, that, we're		DVD that we provide. We have sent two of our
	Page 339		Page 341
1	very familiar with.	1	training officers to the [inaudible] which
2	In the event of a pipeline, we really		-
–			we've provided to all our line personnel in our
3	don't have any direct training on pipeline	1	we've provided to all our line personnel in our training division.
3	don't have any direct training on pipeline training, so	1	training division.
3	don't have any direct training on pipeline training, so MS. SANZO: What other sources of	3 4	training division. So I mean, those are the type things we
3 4 5	training, so MS. SANZO: What other sources of	3 4 5	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did
3 4 5	training, so MS. SANZO: What other sources of training would excuse me.	3 4 5 6	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's
3 4 5 6	training, so MS. SANZO: What other sources of	3 4 5 6	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did
3 4 5 6 7 8	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there	3 4 5 6 7	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training
3 4 5 6 7 8	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include	3 4 5 6 7 8 9	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum.
3 4 5 6 7 8 9 10	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety?	3 4 5 6 7 8 9	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to
3 4 5 6 7 8 9 10 11	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie	3 4 5 6 7 8 9 10 11	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post?
3 4 5 6 7 8 9 10 11 12	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric	3 4 5 6 7 8 9 10 11	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was
3 4 5 6 7 8 9 10 11 12 13	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric and gas safety presentations, for a long time PG&E	3 4 5 6 7 8 9 10 11 12 13	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was post-September 9th.
3 4 5 6 7 8 9 10 11 12 13	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric and gas safety presentations, for a long time PG&E presented those classes to us, and so that's the	3 4 5 6 7 8 9 10 11 12 13	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was post-September 9th. MS. SANZO: And could you provide an
3 4 5 6 7 8 9 10 11 12 13 14 15	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric and gas safety presentations, for a long time PG&E presented those classes to us, and so that's the basis for our training.	3 4 5 6 7 8 9 10 11 12 13 14 15	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was post-September 9th. MS. SANZO: And could you provide an overview of the San Bruno Fire Department?
3 4 5 6 7 8 9 10 11 12 13 14 15 16	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric and gas safety presentations, for a long time PG&E presented those classes to us, and so that's the basis for our training. We still do scenario-based, pre-planned	3 4 5 6 7 8 9 10 11 12 13 14 15	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was post-September 9th. MS. SANZO: And could you provide an overview of the San Bruno Fire Department? DENNIS HAAG: The San Bruno Fire Department has 29 line personnel. We run 2 line
3 4 5 6 7 8 9 10 11 12 13 14 15 16	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric and gas safety presentations, for a long time PG&E presented those classes to us, and so that's the basis for our training. We still do scenario-based, pre-planned type activities to address any kind of incident	3 4 5 6 7 8 9 10 11 12 13 14 15 16	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was post-September 9th. MS. SANZO: And could you provide an overview of the San Bruno Fire Department? DENNIS HAAG: The San Bruno Fire Department has 29 line personnel. We run 2 line
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric and gas safety presentations, for a long time PG&E presented those classes to us, and so that's the basis for our training. We still do scenario-based, pre-planned type activities to address any kind of incident that we may face from pipeline to prepare for	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was post-September 9th. MS. SANZO: And could you provide an overview of the San Bruno Fire Department? DENNIS HAAG: The San Bruno Fire Department has 29 line personnel. We run 2 line engines with aerials and we cover 6.1 miles. MS. SANZO: What knowledge should
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric and gas safety presentations, for a long time PG&E presented those classes to us, and so that's the basis for our training. We still do scenario-based, pre-planned type activities to address any kind of incident that we may face from pipeline to prepare for transmission position.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was post-September 9th. MS. SANZO: And could you provide an overview of the San Bruno Fire Department? DENNIS HAAG: The San Bruno Fire Department has 29 line personnel. We run 2 line engines with aerials and we cover 6.1 miles. MS. SANZO: What knowledge should
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric and gas safety presentations, for a long time PG&E presented those classes to us, and so that's the basis for our training. We still do scenario-based, pre-planned type activities to address any kind of incident that we may face from pipeline to prepare for transmission position. MS. SANZO: You had described that PG&E	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was post-September 9th. MS. SANZO: And could you provide an overview of the San Bruno Fire Department? DENNIS HAAG: The San Bruno Fire Department has 29 line personnel. We run 2 line engines with aerials and we cover 6.1 miles. MS. SANZO: What knowledge should firefighters have about the location of natural
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	training, so MS. SANZO: What other sources of training would excuse me. What other sources of training are there available to the fire department that include natural gas safety? DENNIS HAAG: As part of our rookie academy training curricula, we do have electric and gas safety presentations, for a long time PG&E presented those classes to us, and so that's the basis for our training. We still do scenario-based, pre-planned type activities to address any kind of incident that we may face from pipeline to prepare for transmission position. MS. SANZO: You had described that PG&E had provided training. Could you please describe	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	training division. So I mean, those are the type things we look for. As a matter of fact, [inaudible] I did pick up the National Association Fire Marshal's video and incorporated that in our training curriculum. MS. SANZO: And is this prior to September 9th, or post? DENNIS HAAG: That was post-September 9th. MS. SANZO: And could you provide an overview of the San Bruno Fire Department? DENNIS HAAG: The San Bruno Fire Department has 29 line personnel. We run 2 line engines with aerials and we cover 6.1 miles. MS. SANZO: What knowledge should firefighters have about the location of natural gas lines?

	Page 342		Page 344
	Fage 342		Fage 544
1	the pipelines is it gives the Fire Service the	1	early introduction of kind of the orientation
2	ability to preplan, to do scenario-based training.	2	training, information that we had that they ran up
3	Obviously, you know, the situation on	3	the corridors all the way up the corridor, and
	September 9th wasn't something that we could ever		there's 101 close to Millbrae, the 101/Millbrae
	imagine. But it it does give us some		Avenue juncture that I think in the 1980s we had
	opportunity to go out to the scenarios, look at		an incident where PG&E was servicing a line, and
	evacuations and so forth and so on.	1	we we went down as a fire unit, and there
8	MS. SANZO: Thank you.	1	was they were doing some maintenance work and
9	Prior to September 9th how did the fire		he just happened to mention that [inaudible] 101.
	department communicate or coordinate with PG&E	10	MR. TRAINOR: If I understand you
	for example, perhaps, drills?		correctly, the comment was made in the context of
12	DENNIS HAAG: I have no training		responding to an incident, as opposed to a
	documentation of drills directed with PG&E. As I	1	specific focused effort to exchange information?
	mentioned earlier, it is you know, our line	14	DENNIS HAAG: You are correct, yes.
	personnel routinely work with PG&E line personnel,	15	MR. TRAINOR: Were these two pipelines
	you know, on these type of calls, and I'm sure		described as transmission lines, or otherwise
17		1	identified?
18	MS. SANZO: Thank you, Chief Haag.	18	DENNIS HAAG: Just as transmission
19	MR. TRAINOR: Good morning, Chief. How		lines.
20	5	20	MR. TRAINOR: Okay. And did you know what a transmission line was at the time?
21	DENNIS HAAG: How are you?		DENNIS HAAG: At the time I was a
22	MR. TRAINOR: With respect to your	22	DENNIS HARO. At the time I was a
	Dama 242		D
	Page 343		Page 345
1		1	
	jurisdiction, how many people in the San Bruno		firefighter, so I went back and looked it up and
2	jurisdiction, how many people in the San Bruno community do you serve?	2	firefighter, so I went back and looked it up and found out.
2 3	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000.	2 3	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about
2 3 4	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate	2 3 4	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever
2 3 4 5	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area?	2 3 4 5	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping
2 3 4 5 6	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1	2 3 4 5 6	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System?
2 3 4 5 6 7	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles.	2 3 4 5 6 7	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no,
2 3 4 5 6 7 8	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that.	2 3 4 5 6 7 8	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not.
2 3 4 5 6 7 8 9	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you.	2 3 4 5 6 7 8 9	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound
2 3 4 5 6 7 8 9 10	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential	2 3 4 5 6 7 8 9	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why
2 3 4 5 6 7 8 9 10 11	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area?	2 3 4 5 6 7 8 9 10	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done?
2 3 4 5 6 7 8 9 10 11 12	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there	2 3 4 5 6 7 8 9 10 11 12	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't
2 3 4 5 6 7 8 9 10 11 12 13	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry.	2 3 4 5 6 7 8 9 10 11 12 13	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any
2 3 4 5 6 7 8 9 10 11 12 13 14	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry. MR. TRAINOR: You mentioned that you	2 3 4 5 6 7 8 9 10 11 12 13 14	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any agency on the Peninsula. And so what we have
2 3 4 5 6 7 8 9 10 11 12 13 14 15	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry. MR. TRAINOR: You mentioned that you were not aware of line 132, the transmission line,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any agency on the Peninsula. And so what we have tried to do is is it was kind of a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry. MR. TRAINOR: You mentioned that you were not aware of line 132, the transmission line, running through San Bruno, but you had been told	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any agency on the Peninsula. And so what we have tried to do is is it was kind of a whether it was a transmission line or not, was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry. MR. TRAINOR: You mentioned that you were not aware of line 132, the transmission line, running through San Bruno, but you had been told by PG&E of two pipelines through the freeway	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any agency on the Peninsula. And so what we have tried to do is is it was kind of a whether it was a transmission line or not, was there a need to know?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry. MR. TRAINOR: You mentioned that you were not aware of line 132, the transmission line, running through San Bruno, but you had been told by PG&E of two pipelines through the freeway corridor up the Peninsula.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any agency on the Peninsula. And so what we have tried to do is is it was kind of a whether it was a transmission line or not, was there a need to know? And until we kind of determined that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry. MR. TRAINOR: You mentioned that you were not aware of line 132, the transmission line, running through San Bruno, but you had been told by PG&E of two pipelines through the freeway corridor up the Peninsula. How are those pipelines what	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any agency on the Peninsula. And so what we have tried to do is is it was kind of a whether it was a transmission line or not, was there a need to know? And until we kind of determined that there was the need to know, we didn't do that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry. MR. TRAINOR: You mentioned that you were not aware of line 132, the transmission line, running through San Bruno, but you had been told by PG&E of two pipelines through the freeway corridor up the Peninsula. How are those pipelines what information, specific information, about those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any agency on the Peninsula. And so what we have tried to do is is it was kind of a whether it was a transmission line or not, was there a need to know? And until we kind of determined that there was the need to know, we didn't do that. MR. TRAINOR: I'm not quite sure I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry. MR. TRAINOR: You mentioned that you were not aware of line 132, the transmission line, running through San Bruno, but you had been told by PG&E of two pipelines through the freeway corridor up the Peninsula. How are those pipelines what information, specific information, about those pipelines were you provided?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any agency on the Peninsula. And so what we have tried to do is is it was kind of a whether it was a transmission line or not, was there a need to know? And until we kind of determined that there was the need to know, we didn't do that. MR. TRAINOR: I'm not quite sure I understand that last response.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	jurisdiction, how many people in the San Bruno community do you serve? DENNIS HAAG: About 41,000. MR. TRAINOR: And what's the approximate square area? DENNIS HAAG: I said that earlier, 6.1 square miles. MR. TRAINOR: I didn't quite hear that. Thank you. Is the San Bruno area a residential area? DENNIS HAAG: Yes, it is. Yeah, there is, obviously, some commercial and light industry. MR. TRAINOR: You mentioned that you were not aware of line 132, the transmission line, running through San Bruno, but you had been told by PG&E of two pipelines through the freeway corridor up the Peninsula. How are those pipelines what information, specific information, about those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	firefighter, so I went back and looked it up and found out. MR. TRAINOR: We were talking about sources of information. Has your department ever consulted with the National Pipeline Mapping System? DENNIS HAAG: As a matter of fact, no, we have not. MR. TRAINOR: Would you care to expound on that, please, as to why you didn't? Or why you why it hasn't been done? DENNIS HAAG: Well, I'll we don't have maps of the pipeline system, you know, at any agency on the Peninsula. And so what we have tried to do is is it was kind of a whether it was a transmission line or not, was there a need to know? And until we kind of determined that there was the need to know, we didn't do that. MR. TRAINOR: I'm not quite sure I

PG&E Gas Transmission Pipeline - DAY 2		March 2, 20
Page 346		Page 34
1 you determined is important since the accident?	1	dealt with, you know, the procedures in the
2 Or was there	2	event in typically, distribution-type
3 DENNIS HAAG: Well, there's no question,	3	emergencies. There was no direct pipeline
4 yes.	4	training.
5 MR. TRAINOR: What about before the	5	MR. TRAINOR: Prior to the accident,
6 accident?	6	what type of communications or coordination had
7 DENNIS HAAG: Well, we assumed that this	7	your department had with PG&E with respect to
8 transmission line was a line providing we	8	emergency response coordination and communication
9 didn't recognize the pressure, besides what we	9	DENNIS HAAG: Primarily the
o read, that it was 60-pound psi or greater.	10	communication was with line personnel. It was no
1 MR. TRAINOR: But did you recognize or	11	direct training with any of our command staff,
2 consider there was a need to consult the National	12	officers and so forth and so on.
3 Pipeline Mapping System prior to the accident?	13	MR. TRAINOR: Did you or any of your
4 DENNIS HAAG: Well, we definitely could	14	senior officers have any communication with your
5 have done that, but we did not.		counterparts at PG&E?
6 MR. TRAINOR: Okay. I'd like to ask you	16	DENNIS HAAG: No.
7 if you could describe in a little bit more detail	17	MR. TRAINOR: Since the accident, have
8 the the training materials that you have	18	you had any communications with PG&E?
9 received from PG&E.	19	DENNIS HAAG: Yes, we have. After the
• Would you provide a brief summary of	20	accident, PG&E contacted us and provided us with
1 those?	21	updated maps. We had discussions about enhancing
DENNIS HAAG: In 2007, again, we had our	22	the training curriculum between the Fire Service
Page 347		Page 34
a contration and a second s		10000
1 training response to responding to utility	1	and PG&E.
	1 2	Soon after that, I was contacted by
2 emergencies that was presented by PG&E personnel	2	Soon after that, I was contacted by
2 emergencies that was presented by PG&E personnel3 in 2007. We rolled that out to our line staff	2 3	
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 	2 3 4	Soon after that, I was contacted by another PG&E representative regarding a GIS
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 	2 3 4 5	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 	2 3 4 5 6	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 	2 3 4 5 6	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E.
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 	2 3 4 5 6 7 8	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E.
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 	2 3 4 5 6 7 8	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives?
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 	2 3 4 5 6 7 8 9 10	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 1 MR. TRAINOR: You mentioned that the 	2 3 4 5 6 7 8 9 10 11	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives? DENNIS HAAG: Right now, the last e-mail
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 1 MR. TRAINOR: You mentioned that the 2 about the electrical side of the house, the 	2 3 4 5 6 7 8 9 10 11	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and
 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 	2 3 4 5 6 7 8 9 10 11 12 13	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and several other interested agencies.
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 1 MR. TRAINOR: You mentioned that the 2 about the electrical side of the house, the 3 materials you got with regards to the electrical 4 utilities. 	2 3 4 5 6 7 8 9 10 11 12 13	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and several other interested agencies. MR. TRAINOR: One last question. Were
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 1 MR. TRAINOR: You mentioned that the 2 about the electrical side of the house, the 3 materials you got with regards to the electrical 4 utilities. 5 Can you describe the pipeline training 	2 3 4 5 6 7 8 9 10 11 12 13 14	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and several other interested agencies. MR. TRAINOR: One last question. Were there any markings on the street? I guess it
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 1 MR. TRAINOR: You mentioned that the 2 about the electrical side of the house, the 3 materials you got with regards to the electrical 4 utilities. 5 Can you describe the pipeline training 6 materials in a little bit more detail? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and several other interested agencies. MR. TRAINOR: One last question. Were there any markings on the street? I guess it would be Glendale Drive?
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 1 MR. TRAINOR: You mentioned that the 2 about the electrical side of the house, the 3 materials you got with regards to the electrical 4 utilities. 5 Can you describe the pipeline training 6 materials in a little bit more detail? 7 Were and what I'm specifically 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and several other interested agencies. MR. TRAINOR: One last question. Were there any markings on the street? I guess it would be Glendale Drive? DENNIS HAAG: Glenview.
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 1 MR. TRAINOR: You mentioned that the 2 about the electrical side of the house, the 3 materials you got with regards to the electrical 4 utilities. 5 Can you describe the pipeline training 6 materials in a little bit more detail? 7 Were and what I'm specifically 8 interested in is is how specifically these 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and several other interested agencies. MR. TRAINOR: One last question. Were there any markings on the street? I guess it would be Glendale Drive? DENNIS HAAG: Glenview. MR. TRAINOR: Glenview Drive from line
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 1 MR. TRAINOR: You mentioned that the 2 about the electrical side of the house, the 3 materials you got with regards to the electrical 4 utilities. 5 Can you describe the pipeline training 6 materials in a little bit more detail? 7 Were and what I'm specifically 8 interested in is is how specifically these 9 training materials are to the PG&E system, as 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has been made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and several other interested agencies. MR. TRAINOR: One last question. Were there any markings on the street? I guess it would be Glendale Drive? DENNIS HAAG: Glenview. MR. TRAINOR: Glenview Drive from line 132?
 2 emergencies that was presented by PG&E personnel 3 in 2007. We rolled that out to our line staff 4 right after that that having been approved 5 for the class. 6 And later in 2007 we actually went to 7 the San Mateo Substation for electrical 8 orientation on substation emergencies. 9 And those are the two documented 0 trainings I have received. 1 MR. TRAINOR: You mentioned that the 2 about the electrical side of the house, the 3 materials you got with regards to the electrical 4 utilities. 5 Can you describe the pipeline training 6 materials in a little bit more detail? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has beer made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and several other interested agencies. MR. TRAINOR: One last question. Were there any markings on the street? I guess it would be Glendale Drive? DENNIS HAAG: Glenview. MR. TRAINOR: Glenview Drive from line 132? DENNIS HAAG: The market we found on
 emergencies that was presented by PG&E personnel in 2007. We rolled that out to our line staff right after that that having been approved for the class. And later in 2007 we actually went to the San Mateo Substation for electrical orientation on substation emergencies. And those are the two documented trainings I have received. MR. TRAINOR: You mentioned that the about the electrical side of the house, the materials you got with regards to the electrical utilities. Can you describe the pipeline training materials in a little bit more detail? Were and what I'm specifically interested in is is how specifically these training materials are to the PG&E system, as opposed to more generic materials. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Soon after that, I was contacted by another PG&E representative regarding a GIS program that would be compatible with the Fire Service CAD dispatch center, and possibility of rolling out of some enhanced training communication with PG&E. MR. TRAINOR: And what progress has bee made on those initiatives? DENNIS HAAG: Right now, the last e-mail I received was a desire to meet with myself and several other interested agencies. MR. TRAINOR: One last question. Were there any markings on the street? I guess it would be Glendale Drive? DENNIS HAAG: Glenview. MR. TRAINOR: Glenview Drive from line 132? DENNIS HAAG: The market we found on Glenview were small sticker-type plastic stickers

10	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 350		Page 352
1	MR. TRAINOR: Had you ever seen these	1	departments.
2	types of markings before?	2	So if a fire department requests it, we
3	DENNIS HAAG: No, I hadn't.	3	will send them a package. If the industry
4	MR. TRAINOR: That's all I have.	4	requests it, we can send a package.
5	I guess we'll proceed with Mr. Narva?	5	When we go out and do the training,
6	MS. SANZO: Mr. Narva, could you please	6	trainer sessions, we give them all a package. So
7	describe your organization's involvement with	7	it's the same material.
8	pipeline safety.	8	MS. SANZO: What specific information
9	JAMES NARVA: We've been involved with	9	and training do emergency responders need to
	pipeline safety for about seven years, going on	10	typically respond to pipeline incidents?
11	eight. We have a program that's entitled	11	JAMES NARVA: In a general sense, they
12	"Pipeline Emergencies" and it's a joint project	12	need to be aware, first of all, that a pipeline is
13	between the United States Department of	13	underground. That's something that we all take
14	Transportation and the National Association of		for granted but it's an awareness, a recognition
15	State Fire Marshals.	15	of that.
16	It is a curriculum that is specific to	16	1 1
	transmission pipelines, for the most part, both	17	1 ,
	gas and liquid. And the curriculum involves a		between gas and a liquid pipeline, as an example;
	or includes a textbook, training scenarios, a DVD,		understand and literally go through some scenarios
	and instructor's guide. And so, a complete		that take them through different experiences that
	package for emergency responders.		might occur. So those are the key components.
22	Over the years we've conducted training	22	And then another part, while it's not
	Page 351		Page 353
1		1	
	sessions where we'll go out to each state. And		necessarily training, is the contact with the
2		2	necessarily training, is the contact with the operators to know who to contact, have those
2 3	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the	2	necessarily training, is the contact with the
2 3 4	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a	2 3 4	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens.
2 3 4 5	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their	2 3 4 5	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the
2 3 4 5	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's	2 3 4 5	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting
2 3 4 5 6 7	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past.	2 3 4 5	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the
2 3 4 5 6 7 8	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all	2 3 4 5 6 7 8	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the
2 3 4 5 6 7 8 9	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered	2 3 4 5 6 7 8	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that
2 3 4 5 6 7 8 9 10 11	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the	2 3 4 5 6 7 8 9	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire
2 3 4 5 6 7 8 9 10 11	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders.	2 3 4 5 6 7 8 9 10 11 12	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of
2 3 4 5 6 7 8 9 10 11 12 13	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of	2 3 4 5 6 7 8 9 10 11 12 13	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between
2 3 4 5 6 7 8 9 10 11 12 13 13	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of materials have you distributed?	2 3 4 5 6 7 8 9 10 11 12 13 14	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between pipeline operators and the emergency response
2 3 4 5 6 7 8 9 10 11 12 13 14 15	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of materials have you distributed? JAMES NARVA: We've distributed	2 3 4 5 6 7 8 9 10 11 12 13 14 15	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between pipeline operators and the emergency response community?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of materials have you distributed? JAMES NARVA: We've distributed approximately 45,000 copies of the curriculum.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between pipeline operators and the emergency response community? Do you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of materials have you distributed? JAMES NARVA: We've distributed approximately 45,000 copies of the curriculum. MS. SANZO: And about how many sets of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between pipeline operators and the emergency response community? Do you JAMES NARVA: Go ahead. I'm not sure I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of materials have you distributed? JAMES NARVA: We've distributed approximately 45,000 copies of the curriculum. MS. SANZO: And about how many sets of materials have been training materials?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between pipeline operators and the emergency response community? Do you JAMES NARVA: Go ahead. I'm not sure I got the first part of the question.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of materials have you distributed? JAMES NARVA: We've distributed approximately 45,000 copies of the curriculum. MS. SANZO: And about how many sets of materials have been training materials? JAMES NARVA: Well, it's the same	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between pipeline operators and the emergency response community? Do you JAMES NARVA: Go ahead. I'm not sure I got the first part of the question. MS. SANZO: Do you believe there what
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of materials have you distributed? JAMES NARVA: We've distributed approximately 45,000 copies of the curriculum. MS. SANZO: And about how many sets of materials have been training materials? JAMES NARVA: Well, it's the same material.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between pipeline operators and the emergency response community? Do you JAMES NARVA: Go ahead. I'm not sure I got the first part of the question. MS. SANZO: Do you believe there what do you think the communication level is between
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of materials have you distributed? JAMES NARVA: We've distributed approximately 45,000 copies of the curriculum. MS. SANZO: And about how many sets of materials have been training materials? JAMES NARVA: Well, it's the same material. MS. SANZO: Okay.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between pipeline operators and the emergency response community? Do you JAMES NARVA: Go ahead. I'm not sure I got the first part of the question. MS. SANZO: Do you believe there what do you think the communication level is between pipeline operators and Fire Service in general?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	sessions where we'll go out to each state. And we've gone to each of the 50 states and trained a number of Fire Service trainers with the expectation, then, that they go back to their department, and train their members. So that's been the approach that we've taken in the past. We are now in the process of making all of that electronic so that it can be delivered over the web, and we can really measure that training. We've been very involved with having the program there for first responders. MS. SANZO: About how many sets of materials have you distributed? JAMES NARVA: We've distributed approximately 45,000 copies of the curriculum. MS. SANZO: And about how many sets of materials have been training materials? JAMES NARVA: Well, it's the same material.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	necessarily training, is the contact with the operators to know who to contact, have those relationships in place before an incident happens. MS. SANZO: Do you believe that the information and training, as of today, are meeting the needs of the Fire Service? JAMES NARVA: Yes, I would say that the information that's available would meet the needs of the Fire Service. That's not saying that they're always getting into the hands of Fire Service. MS. SANZO: And what degree of communication and coordination exists between pipeline operators and the emergency response community? Do you JAMES NARVA: Go ahead. I'm not sure I got the first part of the question. MS. SANZO: Do you believe there what do you think the communication level is between

10	CE Ous Transmission Tipenne - DITT 2		March 2, 2011
	Page 354		Page 356
1	Or would you like to see it increased?	1	marshals.
2	JAMES NARVA: Certainly I would like to	2	MR. TRAINOR: Do you have any pipeline
3	see an increased level. I don't think you can	3	operators that participate as ad hoc members or
1	have too much communication between those two	1	observers to to your organization?
	parties.	5	JAMES NARVA: I we have over the
6	As I said, it ought to occur before an		past. I couldn't tell you right now whether there
	incident, but that face-to-face dialogue and		is or is not one. They participate in our annual
	information awareness is vital ahead of time, so		conference. Something that we try and do each
1	it ought to be increased.		year is have a session that deals with pipelines,
	•		
10	MS. SANZO: And what methods do you	1	pipeline emergencies. So there is some
	think would be effective to deliver this		communication there, and participation.
	information to the Fire Service?	12	MR. TRAINOR: You mentioned the need for
13	JAMES NARVA: Oh, there isn't one one		better face-to-face communication between the two
	particular method that works. It's it's		groups.
	multiple sources and mediums, I think.	15	What is your organization doing to
16	Face-to-face is always good. But that's		facilitate that?
17	not always possible. We need to be cognizant of	17	JAMES NARVA: Currently we aren't doing
18	that.	18	anything between our organization and individual
19	I think electronic format certainly	19	fire departments or the Fire Service in general.
20	helps where the technology, where the time or	20	It goes to our members.
21	technology allows that. Where there can be	21	MR. TRAINOR: Okay. And just to tie
22	communications, you can find out. The e-mail is	22	this up, do you see any measures that you could
	Page 355		Page 357
1	opened, what part did they read? They may be able	1	take at this point?
1	to find two messages to approach that, so we need	2	JAMES NARVA: Certainly could. And we
1	to move beyond just mailing things out.	3	are developing this electronic portal that I
4	And I think probably the biggest thing	1	talked about. I think the face-to-face is
5	from a response perspective is that we need to		something that needs to come, not necessarily
	know that there's more than just checking a box		always from an operator's perspective, but there
	off, that there was an effort to communicate, that	1	needs to be have a neutral, credible source
1	there truly is communication. And that's a	1	that goes with it and can partner with those
1	two-way street.	1	organizations.
10	There's also a responsibility with the	10	Within the Fire Service, probably law
	Fire Service for responders to seek out that		enforcement, other emergency responders, there's
	information and to be aware, so it's		a there's a natural trust for organizations
1	important.		
14	MS. SANZO: Thank you.	1	say a distrust for those that they don't. It's
	MR. TRAINOR: Mr. Narva, just a couple		just a hesitancy, maybe. So we need to facilitate
15	of clarifications.		that.
17	Your organization, could you describe	17	MR. TRAINOR: Okay. Is there any active
	the membership, what interests or organizations	18	program encouraging the fire departments
19	they represent.		throughout the country to reach out to pipeline
20	JAMES NARVA: The National Association	20	operators?
	of State Fire Marshals is primarily an	21	JAMES NARVA: Not that I'm aware of,
	of State Fire Marshals is primarily an organization that consists of the 50 state fire		JAMES NARVA: Not that I'm aware of, through our association.

_	CE Oas Transmission Expense - DAT 2		Warch 2, 2011
	Page 358		Page 360
1	MR. TRAINOR: Thank you.	1	maps or other types of information relevant to our
2	I'd like to go to Mr. Rezendez from	2	pipeline.
3	PG&E, please.	3	What we do do is provide information
4	Good morning.	4	around the national pipeline system, or mapping
5	AARON REZENDEZ: Good morning.	5	system, which allows them to have access to that
6	MR. TRAINOR: Mr. Rezendez, we've heard		kind of information, as well as a contact
7	the perspective of the firefighters as far as	7	directory.
8	public awareness about pipeline systems.	8	MR. TRAINOR: And the national mapping
9	Now we'd like to get your perspective on	9	system would do what for the firefighter?
10	this.	10	AARON REZENDEZ: Well, it would allow
11	Would you summarize the outreach efforts	11	them, there's a secure portion of that website
12	that PG&E made to the City of San Bruno prior to	12	that allows them to access GIS-based datasets that
13	the September 9th accident.	13	can be, either used online, or downloaded to their
14	AARON REZENDEZ: Surely. We do a couple		own systems.
15	of things, and a few of those were mentioned here.	15	MR. TRAINOR: And, if one did that, we
16	One of the one of the baseline	16	they get maps showing the location of line 132 and
17	programs that we participate in is through the	17	your other transmission pipelines?
18	Pipeline Association for Public Awareness. And	18	AARON REZENDEZ: All the systems and
19	that is a materials-based program which provides	19	operators that navigate at that system, that's my
20	emergency response professionals, whether they be	20	understanding.
21	fire or police.	21	MR. TRAINOR: Does PG&E have data in the
22	And it provides them information. As	22	national mapping system?
	Page 359		Page 361
1	Page 359 was discussed, it contains various baseline	1	
		1	AARON REZENDEZ: Yes, we do.
2	was discussed, it contains various baseline	2	AARON REZENDEZ: Yes, we do.
2 3	was discussed, it contains various baseline emergency response information; it also contains a	2 3	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed
2 3	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that	2 3 4	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno
2 3 4 5	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop.	2 3 4	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the
2 3 4 5 6	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison	2 3 4 5	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132?
2 3 4 5 6 7	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our	2 3 4 5 6 7	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes.
2 3 4 5 6 7 8 9	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together	2 3 4 5 6 7	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison
2 3 4 5 6 7 8 9 10	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described,	2 3 4 5 6 7 8 9	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring.
2 3 4 5 6 7 8 9 10 11	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related	2 3 4 5 6 7 8 9 10 11	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of
2 3 4 5 6 7 8 9 10 11 12	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our	2 3 4 5 6 7 8 9 10 11 12	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies
2 3 4 5 6 7 8 9 10 11 12 13	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds	2 3 4 5 6 7 8 9 10 11 12	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area?
2 3 4 5 6 7 8 9 10 11 12 13 14	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds of systems and software, for example, that we use	2 3 4 5 6 7 8 9 10 11 12 13 14	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area? AARON REZENDEZ: This is focused on the
2 3 4 5 6 7 8 9 10 11 12 13 14	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds of systems and software, for example, that we use to manage emergencies.	2 3 4 5 6 7 8 9 10 11 12 13 14	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area? AARON REZENDEZ: This is focused on the Peninsula, that is to say, the general area around
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds of systems and software, for example, that we use to manage emergencies. MR. TRAINOR: Okay. That's a good	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area? AARON REZENDEZ: This is focused on the Peninsula, that is to say, the general area around San Bruno, and they'll have anywhere from, you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds of systems and software, for example, that we use to manage emergencies. MR. TRAINOR: Okay. That's a good summary. Thank you. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area? AARON REZENDEZ: This is focused on the Peninsula, that is to say, the general area around San Bruno, and they'll have anywhere from, you know, 13, 14 attendees up to 20.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds of systems and software, for example, that we use to manage emergencies. MR. TRAINOR: Okay. That's a good summary. Thank you. With respect to the materials you give 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area? AARON REZENDEZ: This is focused on the Peninsula, that is to say, the general area around San Bruno, and they'll have anywhere from, you know, 13, 14 attendees up to 20. MR. TRAINOR: And that represents 13 or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds of systems and software, for example, that we use to manage emergencies. MR. TRAINOR: Okay. That's a good summary. Thank you. With respect to the materials you give out, does it include any specific information to 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area? AARON REZENDEZ: This is focused on the Peninsula, that is to say, the general area around San Bruno, and they'll have anywhere from, you know, 13, 14 attendees up to 20. MR. TRAINOR: And that represents 13 or 14 people from how many separate jurisdictions?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds of systems and software, for example, that we use to manage emergencies. MR. TRAINOR: Okay. That's a good summary. Thank you. With respect to the materials you give out, does it include any specific information to PG&E pipeline systems? And if so, what 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area? AARON REZENDEZ: This is focused on the Peninsula, that is to say, the general area around San Bruno, and they'll have anywhere from, you know, 13, 14 attendees up to 20. MR. TRAINOR: And that represents 13 or 14 people from how many separate jurisdictions? AARON REZENDEZ: I don't know the exact
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds of systems and software, for example, that we use to manage emergencies. MR. TRAINOR: Okay. That's a good summary. Thank you. With respect to the materials you give out, does it include any specific information to PG&E pipeline systems? And if so, what information is included? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area? AARON REZENDEZ: This is focused on the Peninsula, that is to say, the general area around San Bruno, and they'll have anywhere from, you know, 13, 14 attendees up to 20. MR. TRAINOR: And that represents 13 or 14 people from how many separate jurisdictions? AARON REZENDEZ: I don't know the exact breakdown, but it does include multiple
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 was discussed, it contains various baseline emergency response information; it also contains a DVD that has various scenario-based exercises that individuals can go through at a laptop. We also conduct various liaison meetings, and those would be referred to as well. These are annual meetings. The local maintenance and construction superintendent, along with our governmental relations organization put together a a discussion, if you may, as he described, which provides both gas and electric-related safety. It gives them an overview of our emergency plan, tours of the facilities, the kinds of systems and software, for example, that we use to manage emergencies. MR. TRAINOR: Okay. That's a good summary. Thank you. With respect to the materials you give out, does it include any specific information to PG&E pipeline systems? And if so, what 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	AARON REZENDEZ: Yes, we do. MR. TRAINOR: So, again, if one accessed that mapping system and queried for the San Bruno area, would they come up with a map showing the location of line 132? AARON REZENDEZ: Yes. MR. TRAINOR: With respect to liaison meetings, about how often are these held? AARON REZENDEZ: These are annual events usually held in the spring. MR. TRAINOR: And what is the degree of participation of emergency response agencies within an operating area? AARON REZENDEZ: This is focused on the Peninsula, that is to say, the general area around San Bruno, and they'll have anywhere from, you know, 13, 14 attendees up to 20. MR. TRAINOR: And that represents 13 or 14 people from how many separate jurisdictions? AARON REZENDEZ: I don't know the exact

	Page 362		Page 364
			· · · · · · · · · · ·
1	MR. TRAINOR: I want to discuss a little	1	going around knocking on doors and asking people
	bit about the public awareness program, the		if they know there's a pipeline close to their
	program to educate the public about the pipeline	3	community?
	facilities that may be running through their	4	AARON REZENDEZ: No.
5	community.	5	MR. TRAINOR: Well, who do you survey?
6	We understand that you do have a mailing	6	AARON REZENDEZ: It's a process by which
	program. And, again, the frequency of the mailing		the survey company employs its I believe it's a
	program depends upon the particular location of	1	mailer-based survey and response that is used for
9	residence and businesses.	9	that particular survey.
10	And I know that there are mailings made	10	MR. TRAINOR: And what's the response
	to municipal officials, including the fire	11	level to these mail surveys?
	department. Each of these have different	12	AARON REZENDEZ: I'm sorry?
13	frequencies and so forth.	13	MR. TRAINOR: What's the response rate
14	The information informing the	14	to the mail surveys?
	citizens of a public community, such as those	15	AARON REZENDEZ: I think the response
16	affected by the September 9th accident, what	16	rate, it's kind of mathematical, it kind of gets
17	specific actions do you take to inform these	17	into the statistics of it all, but I believe the
18	people of the hazards or risks from pipelines?	18	response rate is somewhere in the ballpark of 150
19	AARON REZENDEZ: Yes, sir. You	19	as a sample representing a scalable reference to
20	mentioned the communication pieces that we sent	20	the entire pipeline
21	out as a part of our bill to the community. And	21	MR. TRAINOR: No, no. If you send out a
22	that contains information, safety-related	22	hundred surveys, what do you typically get back in
-	Page 363		Page 365
			Tage 000
4		-	
	information, not only hazard recognition, but		the way of responses? How many people respond?
2	information, not only hazard recognition, but response. And we also provide contacts around	2	the way of responses? How many people respond? AARON REZENDEZ: I based on the way
2 3	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find	2 3	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a
2 3 4	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the	2 3 4	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is
2 3 4 5	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly.	2 3 4 5	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so
2 3 4 5 6	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various	2 3 4 5 6	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent
2 3 4 5 6 7	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety	2 3 4 5 6 7	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence.
2 3 4 5 6 7 8	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well.	2 3 4 5 6 7 8	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I
2 3 4 5 6 7 8 9	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk	2 3 4 5 6 7 8 9	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public
2 3 4 5 6 7 8 9 10	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You	2 3 4 5 6 7 8 9 10	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of
2 3 4 5 6 7 8 9 10 11	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills.	2 3 4 5 6 7 8 9 10 11	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys
2 3 4 5 6 7 8 9 10 11 12	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill	2 3 4 5 6 7 8 9 10 11 12	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct?
2 3 4 5 6 7 8 9 10 11 12 13	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill stuffers."	2 3 4 5 6 7 8 9 10 11 12 13	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct? AARON REZENDEZ: That's correct.
2 3 4 5 6 7 8 9 10 11 12 13 14	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill stuffers." AARON REZENDEZ: That is correct.	2 3 4 5 6 7 8 9 10 11 12 13 14	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct? AARON REZENDEZ: That's correct. MR. TRAINOR: What procedures or
2 3 4 5 6 7 8 9 10 11 12 13 14 15	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill stuffers." AARON REZENDEZ: That is correct. MR. TRAINOR: What has PG&E done to	2 3 4 5 6 7 8 9 10 11 12 13 14 15	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct? AARON REZENDEZ: That's correct. MR. TRAINOR: What procedures or policies do you have within PG&E to make sure that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill stuffers." AARON REZENDEZ: That is correct. MR. TRAINOR: What has PG&E done to assess the effectiveness of these bill stuffers?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct? AARON REZENDEZ: That's correct. MR. TRAINOR: What procedures or policies do you have within PG&E to make sure that these contractors are, in fact, doing what they
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill stuffers." AARON REZENDEZ: That is correct. MR. TRAINOR: What has PG&E done to assess the effectiveness of these bill stuffers? AARON REZENDEZ: We participate in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct? AARON REZENDEZ: That's correct. MR. TRAINOR: What procedures or policies do you have within PG&E to make sure that these contractors are, in fact, doing what they should be doing? And all right. If you'd
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill stuffers." AARON REZENDEZ: That is correct. MR. TRAINOR: What has PG&E done to assess the effectiveness of these bill stuffers? AARON REZENDEZ: We participate in the PAPA survey. It's API and INGAA-sponsored survey,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct? AARON REZENDEZ: That's correct. MR. TRAINOR: What procedures or policies do you have within PG&E to make sure that these contractors are, in fact, doing what they should be doing? And all right. If you'd answer that question first, and then I have a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill stuffers." AARON REZENDEZ: That is correct. MR. TRAINOR: What has PG&E done to assess the effectiveness of these bill stuffers? AARON REZENDEZ: We participate in the PAPA survey. It's API and INGAA-sponsored survey, and that's the survey that we use for assessing	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct? AARON REZENDEZ: That's correct. MR. TRAINOR: What procedures or policies do you have within PG&E to make sure that these contractors are, in fact, doing what they should be doing? And all right. If you'd answer that question first, and then I have a second part to it.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill stuffers." AARON REZENDEZ: That is correct. MR. TRAINOR: What has PG&E done to assess the effectiveness of these bill stuffers? AARON REZENDEZ: We participate in the PAPA survey. It's API and INGAA-sponsored survey, and that's the survey that we use for assessing the effectiveness of our programs as it relates to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct? AARON REZENDEZ: That's correct. MR. TRAINOR: What procedures or policies do you have within PG&E to make sure that these contractors are, in fact, doing what they should be doing? And all right. If you'd answer that question first, and then I have a second part to it. AARON REZENDEZ: There's no specific
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	information, not only hazard recognition, but response. And we also provide contacts around pipeline markers, and where they can find additional information, including contacting the utility directly. We also participate in various community-based events for which we provide safety information as well. MR. TRAINOR: All right. Let's talk about the mailing program for a minute. You mentioned the materials that comes with the bills. I think those are commonly referred to as "bill stuffers." AARON REZENDEZ: That is correct. MR. TRAINOR: What has PG&E done to assess the effectiveness of these bill stuffers? AARON REZENDEZ: We participate in the PAPA survey. It's API and INGAA-sponsored survey, and that's the survey that we use for assessing	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the way of responses? How many people respond? AARON REZENDEZ: I based on the way the survey is designed I apologize, I'm not a survey expert but the way the survey itself is designed is such that it would receive 150 or so responses, which would give you a 95 percent confidence. MR. TRAINOR: All right. Now, I understand, too, that with respect to the public awareness program, you employ a couple of contractors to conduct these mailings and surveys for you; is that correct? AARON REZENDEZ: That's correct. MR. TRAINOR: What procedures or policies do you have within PG&E to make sure that these contractors are, in fact, doing what they should be doing? And all right. If you'd answer that question first, and then I have a second part to it.

	CE Cas ITanshinssion I ipenne – DAT 2		March 2, 2011
	Page 366		Page 368
1	we are fully engaged in those processes from	1	to be a greater level of engagement between the
	cradle to grave.	1	preparedness and the prevention aspects within the
3	MR. TRAINOR: Well, that's where I'm	3	company; that is to say, you have a prevention
4	going with this. How do you know that what	4	program that is sending material; you have a
5	they're doing, one, is being conducted?	5	preparedness program that actually sits down,
6	And, secondly, how do you know that what	6	meets with, and provides kind of exercises what
7	they are doing is having the desired effect?	7	we described a little bit earlier.
8	AARON REZENDEZ: Sure. We're involved	8	And we're actively working on that right
9	in every level of the development of the content,	9	now.
10	the language to be used.	10	MR. TRAINOR: We're very interested in
11	If it be, for example, with emergency	11	your continued efforts on that front.
12	responders, we use various surveys that give us	12	And the reason our concern is high on
13	feedback. For example, maybe they want more	13	this, is there have been a number of comments made
14	information about pipelines in the general area,	14	to us since the investigation started that the
15	where they would go to get that information, and	15	community and we heard from Chief Haag
16	how to reach the utility.	16	5 5 1
17	We would enhance those programs based on	17	
	the cycles in which we mail them out, in this case	18	
	it would be annually, to provide kind of that	19	1 8
	continuous improvement along the program.	20	1 1
21	We do use, obviously, vendors with	1	PAPA survey that's sponsored by API surveys all
22	specialized expertise in these areas of producing	22	four of the major stakeholder audiences. We did
	Page 367		Page 369
-	Page 367	-	Page 369
	these mailers and distributing them, but we are	1	it based on a survey in 2007, and we will be
2	these mailers and distributing them, but we are certainly involved in the content of all of them.	2	it based on a survey in 2007, and we will be participating in that survey once again. It's
2 3	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example	2 3	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring.
2 3 4	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a	2 3 4	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of
2 3 4 5	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts?	2 3 4 5	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes
2 3 4 5 6	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the	2 3 4 5 6	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of
2 3 4 5 6 7	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example,	2 3 4 5 6 7	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22
2 3 4 5 6 7 8	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed	2 3 4 5 6 7 8	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback,
2 3 4 5 6 7 8 9	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by	2 3 4 5 6 7 8 9	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too,
2 3 4 5 6 7 8 9 10	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers	2 3 4 5 6 7 8 9 10	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need
2 3 4 5 6 7 8 9 10 11	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by	2 3 4 5 6 7 8 9 10 11	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information
2 3 4 5 6 7 8 9 10 11 12	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module which is now included within that disk and	2 3 4 5 6 7 8 9 10 11	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need
2 3 4 5 6 7 8 9 10 11 12 13	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module	2 3 4 5 6 7 8 9 10 11 12 13	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information specific to pipelines.
2 3 4 5 6 7 8 9 10 11 12 13	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module which is now included within that disk and available online, exclusively for that particular	2 3 4 5 6 7 8 9 10 11 12 13 14	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information specific to pipelines. MR. TRAINOR: What specific outreach
2 3 4 5 6 7 8 9 10 11 12 13 14	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module which is now included within that disk and available online, exclusively for that particular population.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information specific to pipelines. MR. TRAINOR: What specific outreach have you made to the City of San Bruno with
2 3 4 5 6 7 8 9 10 11 12 13 14 15	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module which is now included within that disk and available online, exclusively for that particular population. MR. TRAINOR: What lessons have you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information specific to pipelines. MR. TRAINOR: What specific outreach have you made to the City of San Bruno with respect to communicating with their Merck
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module which is now included within that disk and available online, exclusively for that particular population. MR. TRAINOR: What lessons have you learned since September 9th?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information specific to pipelines. MR. TRAINOR: What specific outreach have you made to the City of San Bruno with respect to communicating with their Merck management officials about the pipeline facilities
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module which is now included within that disk and available online, exclusively for that particular population. MR. TRAINOR: What lessons have you learned since September 9th? AARON REZENDEZ: Do you have a specific? MR. TRAINOR: With respect to your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information specific to pipelines. MR. TRAINOR: What specific outreach have you made to the City of San Bruno with respect to communicating with their Merck management officials about the pipeline facilities within their community? AARON REZENDEZ: Well, I know that each
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module which is now included within that disk and available online, exclusively for that particular population. MR. TRAINOR: What lessons have you learned since September 9th? AARON REZENDEZ: Do you have a specific? MR. TRAINOR: With respect to your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information specific to pipelines. MR. TRAINOR: What specific outreach have you made to the City of San Bruno with respect to communicating with their Merck management officials about the pipeline facilities within their community? AARON REZENDEZ: Well, I know that each
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module which is now included within that disk and available online, exclusively for that particular population. MR. TRAINOR: What lessons have you learned since September 9th? AARON REZENDEZ: Do you have a specific? MR. TRAINOR: With respect to your public awareness program.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information specific to pipelines. MR. TRAINOR: What specific outreach have you made to the City of San Bruno with respect to communicating with their Merck management officials about the pipeline facilities within their community? AARON REZENDEZ: Well, I know that each and every contact, as the Chief had talked about, some of the liaison meetings, in areas, an overview given of the actual transmission system
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	these mailers and distributing them, but we are certainly involved in the content of all of them. MR. TRAINOR: Can you give me an example of where this process has led to a change, or a revision to the public awareness efforts? AARON REZENDEZ: Yes. Some of the feedback that was received by POPA, for example, as well as industry input, we ultimately changed the emergency responder program to enhance it by adding information around what 911 dispatchers need to know and we actually developed a module which is now included within that disk and available online, exclusively for that particular population. MR. TRAINOR: What lessons have you learned since September 9th? AARON REZENDEZ: Do you have a specific? MR. TRAINOR: With respect to your public awareness program. AARON REZENDEZ: I think what we	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	it based on a survey in 2007, and we will be participating in that survey once again. It's slated to be executed this spring. But we also, if I may add, as part of our responding to the utility emergencies classes we actively solicit feedback during the course of the class, and we've had 700 attendees to those 22 classes. They provided us really solid feedback, one that the class is meeting the need, but, too, I think that there is greater emphasis and a need to deliver through various medium information specific to pipelines. MR. TRAINOR: What specific outreach have you made to the City of San Bruno with respect to communicating with their Merck management officials about the pipeline facilities within their community? AARON REZENDEZ: Well, I know that each and every contact, as the Chief had talked about, some of the liaison meetings, in areas, an

1 and, as he discussed as well, there have been

2	efforts post San Bruno to further engage that	2	developed the initial document was primarily made
	community.		of industry personnel, state regulators, and the
4	MR. TRAINOR: But the Chief just said a		Office of Pipeline Safety. The state the state
5			and federal participants were observers in the
	really wasn't aware of line 132.		process.
	So how do you explain that?		
7	AARON REZENDEZ: I can't.	7	The federal and state agencies often
8			will take that role rather than being direct
9	MR. TRAINOR: Okay. Has there been any		members of the work group. We also engaged in a
10	1		number of workshops, comment periods, et cetera,
	specific information to emergency responders about	1	to gather input during the development of the
	the location of the transmission pipelines?		document.
13	AARON REZENDEZ: Yes. And we've	13	MS. SANZO: Were there any other service
14			organizations involved in the development of
15		15	RP1162?
16	-	16	PETER LIDIAK: I don't know the answer
17	MR. TRAINOR: Okay. And that has	17	to that.
18	that been since the accident? Or was that prior?	18	MS. SANZO: What guidance does the
19	AARON REZENDEZ: It has.	19	standard provide for operators for assessing their
20	MR. TRAINOR: Okay. Thank you.	20	awareness programs?
21	Dana, I'll let you take over.	21	PETER LIDIAK: Well, in general it does
22	MS. SANZO: Mr. Lidiak, can you provide	22	require an assessment element. And it is it is
	Page 371		Page 373
1	an overview of the mission and membership of API,	1	not a very specific and, shall we say, you know,
	an overview of the mission and membership of API, please.		not a very specific and, shall we say, you know, standards-driven process.
	- · · · ·		
2 3	please.	2 3	standards-driven process.
2 3 4	please. PETER LIDIAK: Yes. API is a national	2 3 4	standards-driven process. It requires that they evaluate their
2 3 4	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and	2 3 4	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis,
2 3 4 5	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and	2 3 4 5 6	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness.
2 3 4 5 6 7	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry.	2 3 4 5 6 7	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide
2 3 4 5 6 7 8	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide	2 3 4 5 6 7	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of
2 3 4 5 6 7 8	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API	2 3 4 5 6 7 8 9	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please.
2 3 4 5 6 7 8 9	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API	2 3 4 5 6 7 8 9 10	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an
2 3 4 5 6 7 8 9 10 11	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162?	2 3 4 5 6 7 8 9 10 11	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission
2 3 4 5 6 7 8 9 10 11	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements	2 3 4 5 6 7 8 9 10 11 12	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect
2 3 4 5 6 7 8 9 10 11 12 13	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out they were put into place in 2005 under PHMSA	2 3 4 5 6 7 8 9 10 11 12	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission pipelines.
2 3 4 5 6 7 8 9 10 11 12 13	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out	2 3 4 5 6 7 8 9 10 11 12 13 14	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission
2 3 4 5 6 7 8 9 10 11 12 13 14	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out they were put into place in 2005 under PHMSA regulation.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission pipelines. MS. SANZO: Are the public and emergency responders aware of the methods used by PG&E
2 3 4 5 6 7 8 9 10 11 12 13 14 15	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out they were put into place in 2005 under PHMSA regulation. The actual RP was released in 2003, and it has been industry practice since then.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission pipelines. MS. SANZO: Are the public and emergency
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out they were put into place in 2005 under PHMSA regulation. The actual RP was released in 2003, and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission pipelines. MS. SANZO: Are the public and emergency responders aware of the methods used by PG&E common to other guest pipeline operators?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out they were put into place in 2005 under PHMSA regulation. The actual RP was released in 2003, and it has been industry practice since then. It gives operators a framework for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission pipelines. MS. SANZO: Are the public and emergency responders aware of the methods used by PG&E common to other guest pipeline operators? TERRY BOSS: There is a commonality
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out they were put into place in 2005 under PHMSA regulation. The actual RP was released in 2003, and it has been industry practice since then. It gives operators a framework for developing, implementing, and evaluating their public awareness programs.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission pipelines. MS. SANZO: Are the public and emergency responders aware of the methods used by PG&E common to other guest pipeline operators? TERRY BOSS: There is a commonality because of the pipeline safety regulations. PG&E has participated in the past in the implementation
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out they were put into place in 2005 under PHMSA regulation. The actual RP was released in 2003, and it has been industry practice since then. It gives operators a framework for developing, implementing, and evaluating their public awareness programs. MS. SANZO: And who are the stakeholders	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission pipelines. MS. SANZO: Are the public and emergency responders aware of the methods used by PG&E common to other guest pipeline operators? TERRY BOSS: There is a commonality because of the pipeline safety regulations. PG&E has participated in the past in the implementation of those practices, specifically on API 1162.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out they were put into place in 2005 under PHMSA regulation. The actual RP was released in 2003, and it has been industry practice since then. It gives operators a framework for developing, implementing, and evaluating their public awareness programs.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission pipelines. MS. SANZO: Are the public and emergency responders aware of the methods used by PG&E common to other guest pipeline operators? TERRY BOSS: There is a commonality because of the pipeline safety regulations. PG&E has participated in the past in the implementation of those practices, specifically on API 1162. And ever since that has been adopted
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	please. PETER LIDIAK: Yes. API is a national trade association with approximately 450 corporate members, representing all aspects of the oil and gas industry. MS. SANZO: And could you please provide an overview of the pipeline public awareness requirements that are specified in API departmental practice 1162? PETER LIDIAK: Yeah. The requirements are, you know, relatively new. I'll point out they were put into place in 2005 under PHMSA regulation. The actual RP was released in 2003, and it has been industry practice since then. It gives operators a framework for developing, implementing, and evaluating their public awareness programs. MS. SANZO: And who are the stakeholders involved in the development and implementation of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	standards-driven process. It requires that they evaluate their effectiveness on, you know, a statistical basis, and demonstrate the effectiveness. MS. SANZO: Mr. Boss, could you provide an overview of the membership and mission of INGAA, please. TERRY BOSS: Yes. INGAA is an association of interstate natural gas transmission companies, approximately 28 members, that reflect around 186,000 miles of natural gas transmission pipelines. MS. SANZO: Are the public and emergency responders aware of the methods used by PG&E common to other guest pipeline operators? TERRY BOSS: There is a commonality because of the pipeline safety regulations. PG&E has participated in the past in the implementation of those practices, specifically on API 1162.

PETER LIDIAK: The work group that

Page 372

Page 370

1

PG	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 374		Page 376
1	program rather than an awareness program, so the	1	self-assessment efforts at this point are
	change has been trying to measure the awareness	1	statistically driven as opposed to well,
	rather than the amount of education out there.		statistically driven, I guess, versus standards or
4	And it is a continuing program that's as Peter	1	prescribed techniques.
5	mentioned, I think the new API 1162 was just	5	Looking at PG&E's integrity management
6	published in December of this year.	6	program, which does address public awareness
7	MS. SANZO: What challenges do gas	7	issues, their measurement seems to be on the
8	pipeline operators encounter with the recommended	8	number of mailings made, the number of contacts
9	practice and regulations for public awareness?	9	made.
10	TERRY BOSS: I think one of their big	10	What are the pipeline operators doing
11	challenges is that it is a two-way street, and	11	beyond measuring those types of parameters as
12	there can be a lot of education that's put out	12	opposed to looking at parameters that give you
13	there. But being sure that you're educating the	13	a let's say, a more complete sense of
14	correct people and the messages that you're giving	14	effectiveness?
	to those groups do fit into their communication	15	CHAIRMAN HERSMAN: Mr. Trainor, if you
16	patterns, the jargon that those particular groups	16	wouldn't mind holding on a minute. That's
17	work with.		actually a door. Sometimes, that's opened and
18	For example, there's different messages		it's a security alarm. So it's not an
1	that you may give to a public official versus an	1	emergency, but it will take a few minutes a few
	emergency official, versus a homeowner. And	20	seconds or a minute to shut it down.
	crafting those messages, and being able to catch	21	If we do have a fire alarm, I will let
22	their attention so that they do pay attention to	22	you know, there are three exhibits, one behind
	Page 375		B 077
	Fage 375		Page 377
1	this information and understand.	1	you, where you came in and two on the sides, so if
1 2	-		
2	this information and understand.	2	you, where you came in and two on the sides, so if
2 3	this information and understand. Unfortunately, pipelines are buried	2	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it
2 3 4	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual	2 3	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you.
2 3 4	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge	2 3 4 5	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS)
2 3 4 5 6 7	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What	2 3 4 5 6	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the
2 3 4 5 6 7	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with	2 3 4 5 6 7 8	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with
2 3 4 5 6 7	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness?	2 3 4 5 6 7 8 9	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in
2 3 4 5 6 7 8 9 10	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that	2 3 4 5 6 7 8 9 10	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment
2 3 4 5 6 7 8 9 10 11	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know,	2 3 4 5 6 7 8 9 10	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven.
2 3 4 5 6 7 8 9 10 11 12	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to	2 3 4 5 6 7 8 9 10 11 12	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are
2 3 4 5 6 7 8 9 10 11 12 13	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to literally hundreds of thousands of people. And	2 3 4 5 6 7 8 9 10 11 12	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are being sought to ensure that the effectiveness of
2 3 4 5 6 7 8 9 10 11 12 13 14	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to literally hundreds of thousands of people. And getting their attention, getting them to listen to	2 3 4 5 6 7 8 9 10 11 12 13 14	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are being sought to ensure that the effectiveness of the self-assessment programs are, in fact,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to literally hundreds of thousands of people. And getting their attention, getting them to listen to that, and ensuring that they're getting the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are being sought to ensure that the effectiveness of the self-assessment programs are, in fact, effective?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to literally hundreds of thousands of people. And getting their attention, getting them to listen to that, and ensuring that they're getting the message is the challenge here.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are being sought to ensure that the effectiveness of the self-assessment programs are, in fact, effective? And, for example, I cited as an example
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to literally hundreds of thousands of people. And getting their attention, getting them to listen to that, and ensuring that they're getting the message is the challenge here. MS. SANZO: Thank you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are being sought to ensure that the effectiveness of the self-assessment programs are, in fact, effective? And, for example, I cited as an example that PG&E includes the number of bill stillers
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to literally hundreds of thousands of people. And getting their attention, getting them to listen to that, and ensuring that they're getting the message is the challenge here. MS. SANZO: Thank you. Mr. Weimer.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are being sought to ensure that the effectiveness of the self-assessment programs are, in fact, effective? And, for example, I cited as an example that PG&E includes the number of bill stillers that they mail out, and the frequency and that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to literally hundreds of thousands of people. And getting their attention, getting them to listen to that, and ensuring that they're getting the message is the challenge here. MS. SANZO: Thank you. Mr. Weimer. MR. TRAINOR: She thought she was going	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are being sought to ensure that the effectiveness of the self-assessment programs are, in fact, effective? And, for example, I cited as an example that PG&E includes the number of bill stillers that they mail out, and the frequency and that type of thing.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to literally hundreds of thousands of people. And getting their attention, getting them to listen to that, and ensuring that they're getting the message is the challenge here. MS. SANZO: Thank you. Mr. Weimer. MR. TRAINOR: She thought she was going to get away without letting me throw a few	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are being sought to ensure that the effectiveness of the self-assessment programs are, in fact, effective? And, for example, I cited as an example that PG&E includes the number of bill stillers that they mail out, and the frequency and that type of thing. And what I'm concerned about are the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	this information and understand. Unfortunately, pipelines are buried underground and a lot of folks don't have a visual indication of what's there, so it's hard to gauge their attention on those things. MS. SANZO: Mr. Lidiak, I would also like to ask you the same question. What challenges is your membership encountering with the recommended practice for public awareness? PETER LIDIAK: Much the same answer that Mr. Boss just gave, and that is that, you know, you would have messages that are going out to literally hundreds of thousands of people. And getting their attention, getting them to listen to that, and ensuring that they're getting the message is the challenge here. MS. SANZO: Thank you. Mr. Weimer. MR. TRAINOR: She thought she was going	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	you, where you came in and two on the sides, so if everyone will just hold tight, and we'll shut it down. Thank you. (FIRE ALARM SOUNDS) CHAIRMAN HERSMAN: Sorry about the interruption. And, Mr. Trainor, please continue on with your questioning. MR. TRAINOR: Yes, we were with Mr. Lidiak, and I had asked you this was in response to your comment about the self-assessment efforts being statistically driven. And my question was, what statistics are being sought to ensure that the effectiveness of the self-assessment programs are, in fact, effective? And, for example, I cited as an example that PG&E includes the number of bill stillers that they mail out, and the frequency and that type of thing.

	1		
	Page 378		Page 380
1	And that's what I'd like to ask you to	1	operate natural gas transmission pipelines.
2	respond to.	2	When you're in a situation and you have
3	PETER LIDIAK: And I think it's good to	3	a corporate environment where you're providing
4	make the distinction by what's required by the		natural gas transmission, distribution and
	program.		possibly electrical service, there may be some
6	The programs do require that they mail		paradigms in thoughts of what they think a
7	out a certain number of pieces of information, or		pipeline is.
	provide that information in other means, through	8	And even though you may consider that
	meetings.		there may be more problems in the distribution
10	The effectiveness requirements require		systems so the messages need to get out on a
	that they evaluate the effectiveness of those		distribution system, there's still a message on
	materials. I'll give you an example of what our		the transmission system. And you may have some
	industry program and there are many other		folks arbitrarily thinking that you're talking
	programs that are meant to offer to operators, but		about a distribution like going to a house, and
	I can tell you what ours looks at.		they get a different paradigm in their mind.
16	The kinds of questions that we're	16	So it's how do you distinguish that sort
17	looking at is pipeline awareness in the community,	17	
	the level of being informed about pipelines in the		that is some of the material to distinguish that.
	community, recall receipt of the information about	19	But, honestly, distribution and
	pipelines, questions about whether the what are		transmission is a jargon term that we use within
	the most effective methods for the recipients.		the industry, and it is not well-known outside of
22	And so those types of questions are		this industry. So it's removing those jargon
	Page 379		Page 381
1	being polled. And the process, as was alluded to	1	terms and trying to communicate that there is
2	before, is, we set a confidence limit for what	2	something different between the lines.
3	we'd like to see for responses that will give us	3	MR. TRAINOR: Okay. I'd like also to
4	surety about the answers. And we simply continue		diment this expertion to Mr. Dess. And we
		4	direct this question to Mr. Boss. And we
5	to poll until we reach the right sampling limit to		mentioned challenges facing the pipeline operators
	to poll until we reach the right sampling limit to get that level of confidence.	5	-
		5 6	mentioned challenges facing the pipeline operators
6 7	get that level of confidence.	5 6 7	mentioned challenges facing the pipeline operators in this with respect to public education or
6 7 8	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would	5 6 7 8	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a
6 7 8	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and	5 6 7 8 9	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct
6 7 8 9 10	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss.	5 6 7 8 9	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular
6 7 8 9 10 11	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas	5 6 7 8 9 10 11	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern.
6 7 8 9 10 11 12 13	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be	5 6 7 8 9 10 11 12	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge?
6 7 8 9 10 11 12 13 14	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be a distinction between the hazards and risks of a	5 6 7 8 9 10 11 12 13 14	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge? TERRY BOSS: I think what we're trying
6 7 8 9 10 11 12 13 14 15	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be a distinction between the hazards and risks of a distribution system versus the hazards and risks	5 6 7 8 9 10 11 12 13 14 15	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge? TERRY BOSS: I think what we're trying to do is have a cooperative environment. We have
6 7 8 9 10 11 12 13 14 15	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be a distinction between the hazards and risks of a distribution system versus the hazards and risks from a transmission pipeline.	5 6 7 8 9 10 11 12 13 14 15 16	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge? TERRY BOSS: I think what we're trying to do is have a cooperative environment. We have progressed from, say, the late '90s, where we
6 7 8 9 10 11 12 13 14 15 16 17	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be a distinction between the hazards and risks of a distribution system versus the hazards and risks from a transmission pipeline. Do you think that that distinction needs	5 6 7 8 9 10 11 12 13 14 15 16 17	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge? TERRY BOSS: I think what we're trying to do is have a cooperative environment. We have progressed from, say, the late '90s, where we worked together with PHMSA on the National
6 7 8 9 10 11 12 13 14 15 16 17	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be a distinction between the hazards and risks of a distribution system versus the hazards and risks from a transmission pipeline.	5 6 7 8 9 10 11 12 13 14 15 16 17	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge? TERRY BOSS: I think what we're trying to do is have a cooperative environment. We have progressed from, say, the late '90s, where we worked together with PHMSA on the National Pipeline Mapping System, making that available.
6 7 8 9 10 11 12 13 14 15 16 17 18	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be a distinction between the hazards and risks of a distribution system versus the hazards and risks from a transmission pipeline. Do you think that that distinction needs to be made? And how would you go about doing that?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge? TERRY BOSS: I think what we're trying to do is have a cooperative environment. We have progressed from, say, the late '90s, where we worked together with PHMSA on the National Pipeline Mapping System, making that available. We went to the Common Ground Alliance
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be a distinction between the hazards and risks of a distribution system versus the hazards and risks from a transmission pipeline. Do you think that that distinction needs to be made? And how would you go about doing that? TERRY BOSS: I think that's a very	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge? TERRY BOSS: I think what we're trying to do is have a cooperative environment. We have progressed from, say, the late '90s, where we worked together with PHMSA on the National Pipeline Mapping System, making that available. We went to the Common Ground Alliance because the key group to talk to is the excavators
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be a distinction between the hazards and risks of a distribution system versus the hazards and risks from a transmission pipeline. Do you think that that distinction needs to be made? And how would you go about doing that? TERRY BOSS: I think that's a very important point, Bob. The companies that are	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge? TERRY BOSS: I think what we're trying to do is have a cooperative environment. We have progressed from, say, the late '90s, where we worked together with PHMSA on the National Pipeline Mapping System, making that available. We went to the Common Ground Alliance because the key group to talk to is the excavators out there, a realization that public officials
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	get that level of confidence. MR. TRAINOR: Okay. Thank you. I would address this question to both Mr. Boss and Mr. Lidiak or to Mr. Boss. In representing an association of gas transmission operators and gas pipeline operators, one thing I've noticed from the PG&E public awareness program is that there doesn't seem to be a distinction between the hazards and risks of a distribution system versus the hazards and risks from a transmission pipeline. Do you think that that distinction needs to be made? And how would you go about doing that? TERRY BOSS: I think that's a very	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mentioned challenges facing the pipeline operators in this with respect to public education or public awareness programs. You mentioned it's a two-way street, we need to educate the correct people and in a manner that fits their particular communication pattern. What's being done through your organization and other industry organizations to address that need, that challenge? TERRY BOSS: I think what we're trying to do is have a cooperative environment. We have progressed from, say, the late '90s, where we worked together with PHMSA on the National Pipeline Mapping System, making that available. We went to the Common Ground Alliance because the key group to talk to is the excavators

	Page 382		Page 384
1	getting the information. API 1162 addressed some	1	messages that they have to know that there is a
	of those kinds of techniques.		pipeline in their neighborhood for them to have
3	And then a realization that, let's get		any real concern about that. And that seems to be
4	some of the jargon, or how are we describing it,		a message that often is missing, in these mass
	or how we talk to people in this busy environment,	1	communication efforts.
	where people tend not to, maybe, read mail, and	6	We kind of beat around the bush about
	understanding, you know, are we really getting the	7	that and don't come out and tell people that there
	message?		is a pipeline in their neighborhood and what the
9	So PIPA was the latest effort that we	1	potential impacts of that pipeline would be in the
	were involved with Pipeline and Informed Planning		small chance that it failed.
	Alliance, that was just published in December, to	11	MS. SANZO: What do you think are
	talk to other people in the stakeholder game. So		effective methods at reaching out to the general
	it's a constant improvement. And as Peter		public to provide this information?
	mentioned, we do have the new API 1162, so as we	14	CARL WEIMER: Well, certainly the more
	find things we're constantly trying to improve		specific targeted personalized the messages, the
	that in terms of adjusting the regulations moving		more likely that people are to listen to it.
	forward.	17	And you also have to have something that
18	MR. TRAINOR: Thank you. I'll give it		catches their attention. I think sometimes these
	back to Ms. Sanzo.		mass efforts that the industry has tried to put
20	MS. SANZO: Mr. Weimer, could you please	1	forward, and certainly this has been a huge effort
	describe the organization and the mission of		on industry's part to get this message out in the
	Pipeline Safety Trust?		last few years, but a lot of it has been kind of
	Page 383		Page 385
1	Page 383 CARL WEIMER: Yes. The Pipeline Safety	1	
		1	Page 385 mass mailings. And there's, to some degree, a conflict of interest in the message coming from
2	CARL WEIMER: Yes. The Pipeline Safety	2	mass mailings. And there's, to some degree, a
2	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline	2 3	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants
2 3 4	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public	2 3	mass mailings. And there's, to some degree, a conflict of interest in the message coming from
2 3 4 5	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham	2 3 4 5	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines.
2 3 4 5 6	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million	2 3 4 5 6	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the
2 3 4 5 6 7	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek	2 3 4 5 6 7	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything
2 3 4 5 6 7 8	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where	2 3 4 5 6 7 8	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through
2 3 4 5 6 7 8	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three	2 3 4 5 6 7 8 9	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the
2 3 4 5 6 7 8 9	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park.	2 3 4 5 6 7 8 9 10	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to
2 3 4 5 6 7 8 9 10 11	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S.	2 3 4 5 6 7 8 9 10 11	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's
2 3 4 5 6 7 8 9 10 11 12	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they	2 3 4 5 6 7 8 9 10 11	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic
2 3 4 5 6 7 8 9 10 11 12 13	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they were kind of so aghast with the way the company	2 3 4 5 6 7 8 9 10 11 12 13	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic efforts across the country.
2 3 4 5 6 7 8 9 10 11 12 13 14	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they were kind of so aghast with the way the company that maintained their pipeline and the way federal	2 3 4 5 6 7 8 9 10 11 12 13 14	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic efforts across the country. MS. SANZO: What should be the goals of
2 3 4 5 6 7 8 9 10 11 12 13 14 15	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they were kind of so aghast with the way the company that maintained their pipeline and the way federal regulators had regulated it, that they went to bat	2 3 4 5 6 7 8 9 10 11 12 13 14	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic efforts across the country. MS. SANZO: What should be the goals of public awareness programs and outreach to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they were kind of so aghast with the way the company that maintained their pipeline and the way federal regulators had regulated it, that they went to bat for the parents who lost those children to set	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic efforts across the country. MS. SANZO: What should be the goals of public awareness programs and outreach to the general public?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they were kind of so aghast with the way the company that maintained their pipeline and the way federal regulators had regulated it, that they went to bat for the parents who lost those children to set aside \$4 million of the criminals' settlement to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic efforts across the country. MS. SANZO: What should be the goals of public awareness programs and outreach to the general public? CARL WEIMER: Well, I think there's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they were kind of so aghast with the way the company that maintained their pipeline and the way federal regulators had regulated it, that they went to bat for the parents who lost those children to set aside \$4 million of the criminals' settlement to set up the Pipeline Safety Trust to be a watchdog	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic efforts across the country. MS. SANZO: What should be the goals of public awareness programs and outreach to the general public? CARL WEIMER: Well, I think there's multiple goals and API 1162 has most of those
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they were kind of so aghast with the way the company that maintained their pipeline and the way federal regulators had regulated it, that they went to bat for the parents who lost those children to set aside \$4 million of the criminals' settlement to set up the Pipeline Safety Trust to be a watchdog for both the industry and the regulators.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic efforts across the country. MS. SANZO: What should be the goals of public awareness programs and outreach to the general public? CARL WEIMER: Well, I think there's multiple goals and API 1162 has most of those messages identified pretty well. People need to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they were kind of so aghast with the way the company that maintained their pipeline and the way federal regulators had regulated it, that they went to bat for the parents who lost those children to set aside \$4 million of the criminals' settlement to set up the Pipeline Safety Trust to be a watchdog for both the industry and the regulators. MS. SANZO: What are the important	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic efforts across the country. MS. SANZO: What should be the goals of public awareness programs and outreach to the general public? CARL WEIMER: Well, I think there's multiple goals and API 1162 has most of those messages identified pretty well. People need to know where pipelines are, people need to locate
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CARL WEIMER: Yes. The Pipeline Safety Trust is the only national, non-profit public interest group that really focuses on pipeline safety. It came about after the 1990 Bellingham pipeline tragedy where a quarter of a million gallons of gasoline was dumped into a creek through the middle of Bellingham, Washington where it ignited two miles downstream and killed three kids playing in a park. After that event, through the U.S. Justice Department's investigation of that, they were kind of so aghast with the way the company that maintained their pipeline and the way federal regulators had regulated it, that they went to bat for the parents who lost those children to set aside \$4 million of the criminals' settlement to set up the Pipeline Safety Trust to be a watchdog for both the industry and the regulators. MS. SANZO: What are the important messages that the general public should know about	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mass mailings. And there's, to some degree, a conflict of interest in the message coming from the industry because the industry very much wants to portray themselves as having safe pipelines. And certainly that's true, but if the message on all of your mailers is that everything is safe and reliable and you have to wade through that for a couple of pages before you get to the safety messages, it's hard for people to get to the safety messages and read those. And that's what we see in a lot of these kind of generic efforts across the country. MS. SANZO: What should be the goals of public awareness programs and outreach to the general public? CARL WEIMER: Well, I think there's multiple goals and API 1162 has most of those messages identified pretty well. People need to know where pipelines are, people need to locate them, and know what to do if something goes wrong

10	QE Gas Hansmission Effetile - DAT 2		Match 2, 2011
	Page 386		Page 388
1	that's one of the major causes of these problems,	10	of times, and most of these messages one of the
	and if you're communicating with the public,		generic messages we see around the country is a
	that's something they need to know about.		quote from the NTSB stating that pipelines are the
4	But you really need to provide those	4 5	safest way to transport fuel. That's totally
5	messages in a way that we don't hear after every	5 1	true. We don't disagree with that at all.
	one of these tragedies, that the communities had	6	But if that's your lead-in message on
	no idea there were pipelines running through their	7 1	the public awareness piece to try to get safety
	neighborhoods.	8 1	messages out to people, why would anybody read the
9	MS. SANZO: What can be done to increase		rest of the brochure? You just told them
10	public awareness about pipelines?		everything is safe. If the message on the cover
11	CARL WEIMER: Well, I think there's a		was more to the tune of, there's a significant
12	number of things. One is I think we just need to		incident in the country every other day and half
	really target the message better. I talked a		where someone ends up dead or seriously injured
	little bit about the conflicting messages. I even		every four or five days from a pipeline incident,
	was looking at PG&E's mailer that went out, and		maybe they'd open up the brochure up and take
	while you want people to get to the public safety		those safety messages to heart.
	messages of damage prevention and what to do, and	17	MS. SANZO: Thank you, Mr. Weimer.
	what if you smell gas, what to do, you have to	18	MR. TRAINOR: Mr. Weimer, just a couple
	wade through a couple of pages. And when I was in	19 0	of questions.
20	school in education, there was always a rule, it	20	Your message about better targeting of
21	was the 7-word rule. Most people only read the	21 1	the message to the citizens, could you describe,
22	first seven words of something. That's why	22]	perhaps, the research and information that you
	Page 387		Page 389
1	Page 387 newspapers hire headline writers.	1 (Page 389 collected, your agency has collected, to support
1	newspapers hire headline writers.		
2	newspapers hire headline writers.		collected, your agency has collected, to support
2 3	newspapers hire headline writers. Well, if you look through the PG&E	2 1 3	collected, your agency has collected, to support that particular idea?
2 3 4	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe,	2 1 3 4 1	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a
2 3 4 5	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the	2 t 3 4 1 5 t	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project
2 3 4 5 6	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go	2 1 3 4 1 5 1 6 1	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and
2 3 4 5 6 7	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them	2 1 3 4 1 5 1 6 1 7 1	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to
2 3 4 5 6 7 8 9	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a	2 1 3 4 1 5 1 6 1 7 1 8 3 9 1	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly
2 3 4 5 6 7 8 9	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages.	2 1 3 4 1 5 1 6 1 7 1 8 2 9 1 10 0	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project,
2 3 4 5 6 7 8 9 10	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a	2 1 3 4 1 5 1 6 1 7 1 8 2 9 1 10 0 11 1	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local,
2 3 4 5 6 7 8 9 10 11 12	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing	2 1 3 4 1 5 1 6 1 7 1 8 2 9 1 10 0 11 1	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project,
2 3 4 5 6 7 8 9 10 11 12 12	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and	2 (3 4) 5 (6) 7) 8 2 9 (10 0 11 (12 0 13)	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected officials to start looking at those types
2 3 4 5 6 7 8 9 10 11 12 13 14	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and media multiple communications. And people that	2 (3 4) 5 (6) 7) 8 2 9 (10 0 11 (12 0 13)	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected official or mayor or city council or planning officials to start looking at those types of messages?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and media multiple communications. And people that are only getting a mailer once every two years,	2 (3 4) 5 (6) 7) 8 2 9 (10 0 11 (12 0 13) 14 0 15	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected official or mayor or city council or planning officials to start looking at those types of messages? And what we found out is you really need
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and media multiple communications. And people that are only getting a mailer once every two years, the chance of them picking up and taking those	2 (3 4) 5 (6) 7) 8 3 9 (10 0 11 (12 0 13) 14 0 15 16 (collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected official or mayor or city council or planning officials to start looking at those types of messages? And what we found out is you really need to drill down and look at the message and find out
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and media multiple communications. And people that are only getting a mailer once every two years, the chance of them picking up and taking those messages to heart is much sooner than if they were	2 1 3 4 1 5 1 6 1 7 1 8 3 9 1 10 0 11 1 12 0 11 1 12 0 13 1 14 0 15 16 1 17 7	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected official or mayor or city council or planning officials to start looking at those types of messages? And what we found out is you really need to drill down and look at the message and find out what the incentives are for them to pay attention,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and media multiple communications. And people that are only getting a mailer once every two years, the chance of them picking up and taking those messages to heart is much sooner than if they were hearing messages from different sources and	2 1 3 4 1 5 1 6 1 7 1 8 3 9 1 10 0 11 1 12 0 11 1 12 0 13 1 14 0 15 16 1 17 7	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected official or mayor or city council or planning officials to start looking at those types of messages? And what we found out is you really need to drill down and look at the message and find out what the incentives are for them to pay attention, what the barriers are for them to pay attention.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and media multiple communications. And people that are only getting a mailer once every two years, the chance of them picking up and taking those messages to heart is much sooner than if they were hearing messages from different sources and different directions. And I think the lead-in	2 1 3 4] 5 1 6] 7] 8 2 9 1 10 0 11 1 12 0 13] 14 0 15 16 1 17 9 18 7 18 7 19	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected official or mayor or city council or planning officials to start looking at those types of messages? And what we found out is you really need to drill down and look at the message and find out what the incentives are for them to pay attention, what the barriers are for them to pay attention. And as we did that we learned that, who
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and media multiple communications. And people that are only getting a mailer once every two years, the chance of them picking up and taking those messages to heart is much sooner than if they were hearing messages from different sources and different directions. And I think the lead-in message has to be something that will get people's	2 1 3 4 1 5 1 6 1 7 1 8 2 9 1 10 0 11 1 12 0 13 1 14 0 15 16 1 17 7 18 7 19 20 1	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected official or mayor or city council or planning officials to start looking at those types of messages? And what we found out is you really need to drill down and look at the message and find out what the incentives are for them to pay attention, what the barriers are for them to pay attention. And as we did that we learned that, who the messenger is, is very important. That's one
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and media multiple communications. And people that are only getting a mailer once every two years, the chance of them picking up and taking those messages to heart is much sooner than if they were hearing messages from different sources and different directions. And I think the lead-in message has to be something that will get people's attention.	2 1 3 4 1 5 1 6 1 7 1 8 2 9 1 10 0 11 1 12 0 13 1 14 0 15 16 1 17 7 18 7 19 20 1 21 0	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected official or mayor or city council or planning officials to start looking at those types of messages? And what we found out is you really need to drill down and look at the message and find out what the incentives are for them to pay attention, what the barriers are for them to pay attention. And as we did that we learned that, who the messenger is, is very important. That's one of the things we don't see in these mass marketing
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	newspapers hire headline writers. Well, if you look through the PG&E brochure, the first thing you run into is safe, efficient, reliable, the popular choice, the safest choice, and safety commitment. So you go through all kinds of things telling them everything is good, before you ever get to the safety messages. We need to really try to come up with a different lead-in so people will pay attention to what is inside of those brochures. We need to get the messages out more often, everybody realizing that there are different text communications and media multiple communications. And people that are only getting a mailer once every two years, the chance of them picking up and taking those messages to heart is much sooner than if they were hearing messages from different sources and different directions. And I think the lead-in message has to be something that will get people's attention.	2 1 3 4 1 5 1 6 1 7 1 8 2 9 1 10 0 11 1 12 0 13 1 14 0 15 16 1 17 7 18 7 19 20 1 21 0	collected, your agency has collected, to support that particular idea? CARL WEIMER: Well, we haven't done a lot of research. We did this through a project this past year as part of the Pipeline and Informed Planning Alliance, where we're trying to looks at ways to get local public officials to adopt, use their permitting and zoning regulations to protect people that are, you know, newly develop near pipelines. So we did a project, trying to figure out how do you get a local, elected official or mayor or city council or planning officials to start looking at those types of messages? And what we found out is you really need to drill down and look at the message and find out what the incentives are for them to pay attention, what the barriers are for them to pay attention. And as we did that we learned that, who the messenger is, is very important. That's one

	CE Cas Transmission Tipenne - DAT 2		· · · · · · · · · · · · · · · · · · ·
	Page 390		Page 392
1	find out who the messenger ought to be, what the	1	are just at the beginning of beginning stages
	message ought to be, what the barriers and		of our review of the operator's effectiveness
	incentives are for people to pay attention.		evaluations.
4	MR. TRAINOR: Thank you. Is there a	4	We expect to learn a lot as we go
	written report that your agency has produced		through the inspection process to determine what's
	summarizing this information?		working and what's not working
7	CARL WEIMER: Yes, there is. We have it	7	MR. TRAINOR: Have you developed a list
	on our website. I can't remember the address but		of criteria that you would use when you go in and
	I'd be glad to give that		look at an operator's program?
10	MR. TRAINOR: We would like to obtain a	10	ANNMARIE ROBERTSON: Yes. We state
	copy of that, if you could, please.	11	and federal ad hoc team have been working on this
12	CARL WEIMER: Glad to do that.		issue for several months.
13	MR. TRAINOR: I think now we're ready to	13	MR. TRAINOR: And
14	move to Ms. Robertson from PHMSA.	14	ANNMARIE ROBERTSON: We have go
15	Good morning.		ahead.
16	ANNMARIE ROBERTSON: Good morning.	16	MR. TRAINOR: I was just going to say,
17	MR. TRAINOR: You've heard the testimony	17	are these criteria in a written format
18	from your fellow panelists, and we wanted to	- ·	with written
19	address PHMSA last, because your agency is	19	ANNMARIE ROBERTSON: Yes. We have a
20	involved in all of these matters, and I am	20	discussion form, inspection guidance. We are
	trying to find my place here, bear with me.	21	
22	ANNMARIE ROBERTSON: Okay.	22	developing inspector training.
	Page 391		Page 393
1	Page 391 MR. TRAINOR: We know that PHMSA was	1	
1	MR. TRAINOR: We know that PHMSA was		All of that is underway right now. The
2	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and	2	
2 3	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to	2	All of that is underway right now. The ad hoc team is meeting this week to go over
2 3 4	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in	2 3 4	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in
2 3 4	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place.	2 3 4 5	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists,
2 3 4 5 6	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that	2 3 4 5	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please.
2 3 4 5 6	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place.	2 3 4 5	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists,
2 3 4 5 6 7	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't	2 3 4 5 6 7	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly.
2 3 4 5 6 7 8	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline	2 3 4 5 6 7 8	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that,
2 3 4 5 6 7 8 9	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the	2 3 4 5 6 7 8 9 10	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is
2 3 4 5 6 7 8 9 10	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community.	2 3 4 5 6 7 8 9 10 11	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also
2 3 4 5 6 7 8 9 10 11	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System.	2 3 4 5 6 7 8 9 10 11	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think
2 3 4 5 6 7 8 9 10 11 12	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System. How do you ensure that people are aware	2 3 4 5 6 7 8 9 10 11 12	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think our concern is you have, PHMSA as a regulator, federal regulator, has two responsibilities. And
2 3 4 5 6 7 8 9 10 11 12 13	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System. How do you ensure that people are aware of this resource in are using how has PHMSA made any effort to determine whether these public	2 3 4 5 6 7 8 9 10 11 12 13	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think our concern is you have, PHMSA as a regulator, federal regulator, has two responsibilities. And the first one is, how you assess the effectiveness
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System. How do you ensure that people are aware of this resource in are using how has PHMSA	2 3 4 5 6 7 8 9 10 11 12 13 14	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think our concern is you have, PHMSA as a regulator, federal regulator, has two responsibilities. And
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System. How do you ensure that people are aware of this resource in are using how has PHMSA made any effort to determine whether these public awareness programs, people in these communities,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think our concern is you have, PHMSA as a regulator, federal regulator, has two responsibilities. And the first one is, how you assess the effectiveness of the operators' local public awareness program.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System. How do you ensure that people are aware of this resource in are using how has PHMSA made any effort to determine whether these public awareness programs, people in these communities, generally know it's there?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think our concern is you have, PHMSA as a regulator, federal regulator, has two responsibilities. And the first one is, how you assess the effectiveness of the operators' local public awareness program. Can you elaborate on that, please.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System. How do you ensure that people are aware of this resource in are using how has PHMSA made any effort to determine whether these public awareness programs, people in these communities, generally know it's there? ANNMARIE ROBERTSON: Well, our	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think our concern is you have, PHMSA as a regulator, federal regulator, has two responsibilities. And the first one is, how you assess the effectiveness of the operators' local public awareness program. Can you elaborate on that, please. ANNMARIE ROBERTSON: Well, what we do is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System. How do you ensure that people are aware of this resource in are using how has PHMSA made any effort to determine whether these public awareness programs, people in these communities, generally know it's there? ANNMARIE ROBERTSON: Well, our inspection program includes a review, not only of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think our concern is you have, PHMSA as a regulator, federal regulator, has two responsibilities. And the first one is, how you assess the effectiveness of the operators' local public awareness program. Can you elaborate on that, please. ANNMARIE ROBERTSON: Well, what we do is when we do our inspections we go out and look at
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System. How do you ensure that people are aware of this resource in are using how has PHMSA made any effort to determine whether these public awareness programs, people in these communities, generally know it's there? ANNMARIE ROBERTSON: Well, our inspection program includes a review, not only of the written program, the program requirements, the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think our concern is you have, PHMSA as a regulator, federal regulator, has two responsibilities. And the first one is, how you assess the effectiveness of the operators' local public awareness program. Can you elaborate on that, please. ANNMARIE ROBERTSON: Well, what we do is when we do our inspections we go out and look at their records, look at the results of the surveys that they've done, both to implement the program
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. TRAINOR: We know that PHMSA was deeply involved in the development of 1162, and worked with the participants of that effort to develop the recommended standard that's now in place. One of the problems that keeps that seems to be arising in different pipeline accidents we've seen recently is, people didn't know they had a pipeline within their community. And there's been some discussion of the National Pipeline Mapping System. How do you ensure that people are aware of this resource in are using how has PHMSA made any effort to determine whether these public awareness programs, people in these communities, generally know it's there? ANNMARIE ROBERTSON: Well, our inspection program includes a review, not only of the written program, the program requirements, the implementation of the program, but also a review	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	All of that is underway right now. The ad hoc team is meeting this week to go over lessons learned. MR. TRAINOR: We would be interested in receiving that guidance and those check-off lists, please. ANNMARIE ROBERTSON: Certainly. MR. TRAINOR: One of the things that, again, we've been focusing on in this hearing is operator self-assessment, but we're also interested in regulator self-assessment. I think our concern is you have, PHMSA as a regulator, federal regulator, has two responsibilities. And the first one is, how you assess the effectiveness of the operators' local public awareness program. Can you elaborate on that, please. ANNMARIE ROBERTSON: Well, what we do is when we do our inspections we go out and look at their records, look at the results of the surveys that they've done, both to implement the program

	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 394		Page 396
1	mailings, how do they develop the mailing list,	1	program, as we've been calling it, the CATS
	what were their data sources.		program, is a program that involves inspectors,
3	And then as we go through the	1	PHMSA inspectors in each region.
4	evaluations of the effectiveness, we will also	4	And their role is not only to they're
5	look at those bill surveys, and how they the	5	qualified to do inspections, and certainly are
6	methodology they used for each stakeholder group,	6	capable of that, but they also reach out to the
7	and each measurement. Are there measurement	7	communities. They assist in permitting for
8	requirements for if the audience actually received	8	repairs, if operators need repairs. They assist
9	the message, did they understand the message, have	9	in working with communities. They answer
	they have they taken any action, is there any	10	questions from individuals. They represent PHMSA
	change of behavior based on that, and bottom line	11	at various meetings, giving presentations.
12	results.	12	So they do a lot of outreach, in
13	So operators are required to review all	1	addition to being fully trained as inspectors and
	of those, and we review their measurements.		understanding the regulations.
15	MR. TRAINOR: Well, how would your	15	MR. TRAINOR: I'm not quite clear. So,
	auditors, for example if they looked at		is the CATS program a training program for your
	these the customer survey results, what would	17	inspectors, or is it an outreach activity directed
	they look for in that, in those results, to assure		to operators in communities?
	them that the program has been effective?	19	ANNMARIE ROBERTSON: More the latter.
20	ANNMARIE ROBERTSON: Well, we'll be		More the latter.
	looking for response rates, we'll be looking for	21	MR. TRAINOR: With respect to that
22	feedback from the various stakeholder groups. And	22	outreach activity, about what percentage of the
	Page 395		Page 397
1	we're in a learning process ourselves as to what's	1	time is devoted to the operators versus the
		- -	time is devoted to the operators versus the
2	working and what's not working, what kind of		community?
	working and what's not working, what kind of thresholds can we expect to see as far as response		*
3		2 3	community?
3	thresholds can we expect to see as far as response	2 3	community? ANNMARIE ROBERTSON: Within the CATS
3 4 5	thresholds can we expect to see as far as response rates.	2 3 4	community? ANNMARIE ROBERTSON: Within the CATS program?
3 4 5 6	thresholds can we expect to see as far as response rates. And once we have conducted more	2 3 4 5 6	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes.
3 4 5 6 7	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised.	2 3 4 5 6 7 8	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the
3 4 5 6 7 8 9	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established	2 3 4 5 6 7 8 9	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as
3 4 5 6 7 8 9 10	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses	2 3 4 5 6 7 8 9 10	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may
3 4 5 6 7 8 9 10 11	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that	2 3 4 5 6 7 8 9 10 11	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to.
3 4 5 6 7 8 9 10 11 12	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature?	2 3 4 5 6 7 8 9 10 11 12	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any
3 4 5 6 7 8 9 10 11 12 13	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We	2 3 4 5 6 7 8 9 10 11 12 13	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the
3 4 5 6 7 8 9 10 11 12 13 14	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We have the operators are required to use	2 3 4 5 6 7 8 9 10 11 12 13 14	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the City of San Bruno or the Bay area as a whole?
3 4 5 6 7 8 9 10 11 12 13 14 15	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We have the operators are required to use statistically valid sampling, but as far as	2 3 4 5 6 7 8 9 10 11 12 13 14 15	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the City of San Bruno or the Bay area as a whole? ANNMARIE ROBERTSON: I am unaware of
3 4 5 6 7 8 9 10 11 12 13 14 15 16	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We have the operators are required to use statistically valid sampling, but as far as response rates, we have not yet determined what	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the City of San Bruno or the Bay area as a whole? ANNMARIE ROBERTSON: I am unaware of any. But I can find out
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We have the operators are required to use statistically valid sampling, but as far as response rates, we have not yet determined what should be expected.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the City of San Bruno or the Bay area as a whole? ANNMARIE ROBERTSON: I am unaware of any. But I can find out MR. TRAINOR: You just don't know or
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We have the operators are required to use statistically valid sampling, but as far as response rates, we have not yet determined what should be expected. MR. TRAINOR: Would you describe the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the City of San Bruno or the Bay area as a whole? ANNMARIE ROBERTSON: I am unaware of any. But I can find out MR. TRAINOR: You just don't know or ANNMARIE ROBERTSON: I don't know.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We have the operators are required to use statistically valid sampling, but as far as response rates, we have not yet determined what should be expected. MR. TRAINOR: Would you describe the Community Assistance and Technical Services	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the City of San Bruno or the Bay area as a whole? ANNMARIE ROBERTSON: I am unaware of any. But I can find out MR. TRAINOR: You just don't know or ANNMARIE ROBERTSON: I don't know. MR. TRAINOR: Okay. We would appreciate
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We have the operators are required to use statistically valid sampling, but as far as response rates, we have not yet determined what should be expected. MR. TRAINOR: Would you describe the Community Assistance and Technical Services Program?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the City of San Bruno or the Bay area as a whole? ANNMARIE ROBERTSON: I am unaware of any. But I can find out MR. TRAINOR: You just don't know or ANNMARIE ROBERTSON: I don't know. MR. TRAINOR: Okay. We would appreciate getting information about the CATS program
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We have the operators are required to use statistically valid sampling, but as far as response rates, we have not yet determined what should be expected. MR. TRAINOR: Would you describe the Community Assistance and Technical Services Program? ANNMARIE ROBERTSON: Certainly. The	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the City of San Bruno or the Bay area as a whole? ANNMARIE ROBERTSON: I am unaware of any. But I can find out MR. TRAINOR: You just don't know or ANNMARIE ROBERTSON: I don't know. MR. TRAINOR: Okay. We would appreciate getting information about the CATS program activity that's been done nationwide, and would
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	thresholds can we expect to see as far as response rates. And once we have conducted more inspections we'll have a better understanding of what we can expect to see and whether our regulations are working and need to be revised. MR. TRAINOR: Has PHMSA established threshold rates for, say, for example, responses to surveys? Have you got any criteria of that nature? ANNMARIE ROBERTSON: No, we haven't. We have the operators are required to use statistically valid sampling, but as far as response rates, we have not yet determined what should be expected. MR. TRAINOR: Would you describe the Community Assistance and Technical Services Program?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	community? ANNMARIE ROBERTSON: Within the CATS program? MR. TRAINOR: Yes. ANNMARIE ROBERTSON: I don't believe I can answer that. It varies from region to region, depending on the issues in that region and the activities that are going on as far as construction work, other efforts, that they may need to devote their attention to. MR. TRAINOR: Has there been any outreach activity through the CATS program to the City of San Bruno or the Bay area as a whole? ANNMARIE ROBERTSON: I am unaware of any. But I can find out MR. TRAINOR: You just don't know or ANNMARIE ROBERTSON: I don't know. MR. TRAINOR: Okay. We would appreciate getting information about the CATS program

	Page 398		Page 400
1	ANNMARIE ROBERTSON: Certainly.	1	a recommendation from the Board to recognize
2	MR. TRAINOR: I don't have any more	1	emergency response call centers as part of the
	specific questions, but I would like to very		part of the target audience for the public
	quickly ask each panel member to take a moment		awareness programs. And so that, that directly
	and, based on the discussion we've had this	1	addresses that recommendation.
	morning, offer their comments as far as what they	6	I think the other side of this, too,
	think can be done to elevate the level of public	7	though, is, as far as the awareness goes, the PIPA
	awareness of pipeline systems.		document was mentioned, and this process of
9	And we'll start with Chief Haag.	1	population growth and encroachment on pipeline
10	DENNIS HAAG: Well, I agree. I think	1	rights-of-way is a pretty big issue. And I
11	it's imperative that the awareness elements, even		believe that this San Bruno incident is somewhat
12	in the Fire Services, are certainly heightened by	12	impacted by the fact we have an existing pipeline
13	the events of September 9, but I also think, you	13	that had a great deal of development occur around
14	know, my experience on the reentry program in San	14	it. And so it was pre-existing.
15	Bruno, when the city elected to move our	15	The PIPA document hopefully will help
16	residents to move their losses and their	16	communities to avoid that sort of situation,
17	damaged homes and, you know, my conversations with	17	because it informs the planning the planning
18	the residents, around the pipeline, and there's	18	officials in communities.
19	something that has to be done to make that right.	19	MR. TRAINOR: Thank you. Mr. Boss?
20	So I agree with all the panel members	20	TERRY BOSS: I pretty much echo Peter's
21	that the outreach has to continue and become	21	response on that. It's a process of continuous
22	enhanced and make those contacts real.	22	improvement, both from the pipeline operators and
	Page 399		Page 401
1		1	
1	MR. TRAINOR: Thank you. Mr. Narva?	1	regulators, and also the community on those
2	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an	2	regulators, and also the community on those things.
2 3	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in	2 3	regulators, and also the community on those things. And, unfortunately, we do learn things
2 3 4	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible	2 3 4	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these
2 3 4 5	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that	2 3 4 5	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously
2 3 4 5 6	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going	2 3 4 5	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things.
2 3 4 5 6 7	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that,	2 3 4 5	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer?
2 3 4 5 6 7	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak.	2 3 4 5 6 7 8	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of
2 3 4 5 6 7 8 9	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to	2 3 4 5 6 7 8	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more
2 3 4 5 6 7 8 9 10	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak.	2 3 4 5 6 7 8 9 10	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so
2 3 4 5 6 7 8 9 10	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to	2 3 4 5 6 7 8 9 10	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so
2 3 4 5 6 7 8 9 10 11	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation.	2 3 4 5 6 7 8 9 10	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really
2 3 4 5 6 7 8 9 10 11 12	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation. MR. TRAINOR: Thank you.	2 3 4 5 6 7 8 9 10 11 12 13	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation. MR. TRAINOR: Thank you. Mr. Lidiak.	2 3 4 5 6 7 8 9 10 11 12 13 14	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really focus on the evaluation, improvement of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation. MR. TRAINOR: Thank you. Mr. Lidiak. PETER LIDIAK: I think that public	2 3 4 5 6 7 8 9 10 11 12 13 14 15	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really focus on the evaluation, improvement of the programs over time. And, at least in our minds,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation. MR. TRAINOR: Thank you. Mr. Lidiak. PETER LIDIAK: I think that public awareness programs is going to be a matter of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really focus on the evaluation, improvement of the programs over time. And, at least in our minds, that evaluation should be a key towards whether
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation. MR. TRAINOR: Thank you. Mr. Lidiak. PETER LIDIAK: I think that public awareness programs is going to be a matter of continual improvement.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really focus on the evaluation, improvement of the programs over time. And, at least in our minds, that evaluation should be a key towards whether we're really changing behaviors, just not counting
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation. MR. TRAINOR: Thank you. Mr. Lidiak. PETER LIDIAK: I think that public awareness programs is going to be a matter of continual improvement. As I mentioned earlier, it's a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really focus on the evaluation, improvement of the programs over time. And, at least in our minds, that evaluation should be a key towards whether we're really changing behaviors, just not counting how many brochures are getting mailed out, but there are measurable behaviors here that we could
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation. MR. TRAINOR: Thank you. Mr. Lidiak. PETER LIDIAK: I think that public awareness programs is going to be a matter of continual improvement. As I mentioned earlier, it's a relatively new program. 1162 has been updated recently to reflect the learnings that we've had in the first few years of operation.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really focus on the evaluation, improvement of the programs over time. And, at least in our minds, that evaluation should be a key towards whether we're really changing behaviors, just not counting how many brochures are getting mailed out, but there are measurable behaviors here that we could key on, a number of calls going into the one call centers going up after these mass mailings.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation. MR. TRAINOR: Thank you. Mr. Lidiak. PETER LIDIAK: I think that public awareness programs is going to be a matter of continual improvement. As I mentioned earlier, it's a relatively new program. 1162 has been updated recently to reflect the learnings that we've had in the first few years of operation. And I just want to mention in passing,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really focus on the evaluation, improvement of the programs over time. And, at least in our minds, that evaluation should be a key towards whether we're really changing behaviors, just not counting how many brochures are getting mailed out, but there are measurable behaviors here that we could key on, a number of calls going into the one call centers going up after these mass mailings. After we're talking to public officials,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. TRAINOR: Thank you. Mr. Narva? JAMES NARVA: It's my feel that, from an emergency responder perspective, not the public in general, but I think you have to have a credible message, multiple means of delivering that message, and value for the time that you're going to do. There's something that has to catch that, an incentive, so to speak. Again, multiple methods. And then to look at new technologies, looking at new ways to communicate and then have real evaluation. MR. TRAINOR: Thank you. Mr. Lidiak. PETER LIDIAK: I think that public awareness programs is going to be a matter of continual improvement. As I mentioned earlier, it's a relatively new program. 1162 has been updated recently to reflect the learnings that we've had in the first few years of operation.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	regulators, and also the community on those things. And, unfortunately, we do learn things as these events happen. We don't want these events to happen, but we've got to continuously improve on these sort of things. MR. TRAINOR: Mr. Weimer? CARL WEIMER: Yes. I think that one of the keys is to make this information more specific, targeted and personalized to people so they'll pay attention to it when they receive it. I also think that we need to really focus on the evaluation, improvement of the programs over time. And, at least in our minds, that evaluation should be a key towards whether we're really changing behaviors, just not counting how many brochures are getting mailed out, but there are measurable behaviors here that we could key on, a number of calls going into the one call centers going up after these mass mailings.

	CE Gas ITalishilission Fipchile - DAT 2		Wiarch 2, 2011
	Page 402		Page 404
1	near planning near pipelines, those types of	1	going to take a short break, and then we'll come
	things should be measured, and that should be what		back and the parties and the Board of Inquiry will
	the evaluations are based on to some degree.		ask questions.
4	MR. TRAINOR: Thank you. Mr. Rezendez.	4	We will adjourn and resume at 10:40.
	AARON REZENDEZ: I too could kind of		(RECESS TAKEN FROM 10:24 TO 10:44 A.M.)
5		5	
	chime in on a lot of things that have already been	6	CHAIRMAN HERSMAN: Go ahead and take
	mentioned. I think the use of new technologies	7	5
	hello? recognizing, for example, that a	8	And we'll begin with the parties asking
9	volunteer firefighter located in a remote area	9	questions of the witnesses. IBEW.
10	might not be able to make it to a training center,	10	MS. MAZZANTI: Thank you, Madam
11	being able to provide them online content could be	11	Chairman. I actually do have questions today. My
12	a solution. E-mails, things like Twitter and Face	12	question is for Chief Haag.
	Book, as we compete against all of the other	13	The first question is, there's a water
	messaging, for example, in our society.		line and a sewer line that run parallel to line
15	Tone, as it's been clearly stated, is		132. And there was work done to a sewer line
	huge. I think that in a post San Bruno reality we		which also included a pipe bursting in '08. So
	• •		· · ·
			was this the city not aware that that gas line
	and methodologies and ask ourselves, are we		ran there when they would do that pipe bursting in
	speaking to this audience in a way that they would	19	the sewer enlarging?
20	expect us to speak?	20	DENNIS HAAG: The excavation from
21	MR. TRAINOR: Thank you. Ms. Robertson.	21	what my understanding was, and I probably should
22	ANNMARIE ROBERTSON: I would say, in	22	defer that question, I don't have any knowledge,
	Page 403		Page 405
1	Page 403 addition to analyzing our regulatory program and	1	Page 405 but that those that excavation didn't impact
2	addition to analyzing our regulatory program and especially enforcements program, we recognize that		but that those that excavation didn't impact
2 3	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public	2	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work
2 3 4	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness.	2 3 4	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line
2 3 4 5	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts	2 3 4 5	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As
2 3 4 5 6	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder	2 3 4 5 6	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the
2 3 4 5 6 7	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of	2 3 4 5 6 7	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe.
2 3 4 5 6 7 8	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the	2 3 4 5 6 7 8	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question
2 3 4 5 6 7 8 9	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are	2 3 4 5 6 7 8 9	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to
2 3 4 5 6 7 8 9 10	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of	2 3 4 5 6 7 8 9 10	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department
2 3 4 5 6 7 8 9 10 11	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also	2 3 4 5 6 7 8 9 10	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department?
2 3 4 5 6 7 8 9 10 11	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information.	2 3 4 5 6 7 8 9 10 11 12	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments
2 3 4 5 6 7 8 9 10 11 12 13	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very	2 3 4 5 6 7 8 9 10 11 12 13	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if
2 3 4 5 6 7 8 9 10 11 12 13	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information.	2 3 4 5 6 7 8 9 10 11 12 13	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments
2 3 4 5 6 7 8 9 10 11 12 13 14	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very	2 3 4 5 6 7 8 9 10 11 12 13 14	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if
2 3 4 5 6 7 8 9 10 11 12 13 14 15	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very seriously. We've responded to the Lively incident, the Carmichael incident, and we are	2 3 4 5 6 7 8 9 10 11 12 13 14	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if there wasn't a reason for to contact the fire department, is my assumption.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very seriously. We've responded to the Lively incident, the Carmichael incident, and we are continuing to work to address the recommendations	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if there wasn't a reason for to contact the fire department, is my assumption. MS. MAZZANTI: And my next question is,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very seriously. We've responded to the Lively incident, the Carmichael incident, and we are continuing to work to address the recommendations in the Carmichael incident.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if there wasn't a reason for to contact the fire department, is my assumption. MS. MAZZANTI: And my next question is, was the fire department invited to the trainings
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very seriously. We've responded to the Lively incident, the Carmichael incident, and we are continuing to work to address the recommendations in the Carmichael incident. MR. TRAINOR: Thank you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if there wasn't a reason for to contact the fire department, is my assumption. MS. MAZZANTI: And my next question is, was the fire department invited to the trainings that were held in '09 and 2010?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very seriously. We've responded to the Lively incident, the Carmichael incident, and we are continuing to work to address the recommendations in the Carmichael incident. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if there wasn't a reason for to contact the fire department, is my assumption. MS. MAZZANTI: And my next question is, was the fire department invited to the trainings that were held in '09 and 2010? DENNIS HAAG: Which trainings are you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very seriously. We've responded to the Lively incident, the Carmichael incident, and we are continuing to work to address the recommendations in the Carmichael incident. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the Technical Panel has concluded its questions.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if there wasn't a reason for to contact the fire department, is my assumption. MS. MAZZANTI: And my next question is, was the fire department invited to the trainings that were held in '09 and 2010? DENNIS HAAG: Which trainings are you referring to?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very seriously. We've responded to the Lively incident, the Carmichael incident, and we are continuing to work to address the recommendations in the Carmichael incident. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the Technical Panel has concluded its questions. CHAIRMAN HERSMAN: Thank you very much,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if there wasn't a reason for to contact the fire department, is my assumption. MS. MAZZANTI: And my next question is, was the fire department invited to the trainings that were held in '09 and 2010? DENNIS HAAG: Which trainings are you referring to? MS. MAZZANTI: In Exhibit 40, there's an
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	addition to analyzing our regulatory program and especially enforcements program, we recognize that there are roles for everyone as far as public awareness. We have a number of outreach efforts that we've been doing at PHMSA. Our stakeholder communications website contains a lot of information about damage prevention, about the CATS program, about public awareness. We are trying to, not only get a better understanding of what works or what doesn't work, but also facilitate sharing that information. We take the NTSB recommendations very seriously. We've responded to the Lively incident, the Carmichael incident, and we are continuing to work to address the recommendations in the Carmichael incident. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the Technical Panel has concluded its questions.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	but that those that excavation didn't impact anything as far as I know. MS. MAZZANTI: But it did include work done around that transmission line DENNIS HAAG: I can't answer that. As far as my knowledge, as far as if they saw the pipe or not saw the pipe. MS. MAZZANTI: So then my next question would be, what's the relationship in regard to communications between the public works department and the fire department? DENNIS HAAG: Well, the two departments have great communication. I just don't have if there wasn't a reason for to contact the fire department, is my assumption. MS. MAZZANTI: And my next question is, was the fire department invited to the trainings that were held in '09 and 2010? DENNIS HAAG: Which trainings are you referring to?

Page 406 DENNIS HAAG: The liaison meetings? MS. MAZZANTI: Correct. DENNIS HAAG: Yes, we did receive an nvitation. MS. MAZZANTI: And did you attend at hat time? DENNIS HAAG: I believe my fire marshal ttended the 2010 session. MS. MAZZANTI: And my last question is,	3 4 5 6 7	Page 408 So the response from both law, fire, public services, was probably the most amazing thing I've seen. MR. CLANON: And I want to get to the discussion we had this morning about what you knew about the pipeline in advance. And, in general,
MS. MAZZANTI: Correct. DENNIS HAAG: Yes, we did receive an nvitation. MS. MAZZANTI: And did you attend at hat time? DENNIS HAAG: I believe my fire marshal attended the 2010 session. MS. MAZZANTI: And my last question is,	2 3 4 5 6 7	public services, was probably the most amazing thing I've seen. MR. CLANON: And I want to get to the discussion we had this morning about what you knew
DENNIS HAAG: Yes, we did receive an nvitation. MS. MAZZANTI: And did you attend at hat time? DENNIS HAAG: I believe my fire marshal ttended the 2010 session. MS. MAZZANTI: And my last question is,	3 4 5 6 7	thing I've seen. MR. CLANON: And I want to get to the discussion we had this morning about what you knew
nvitation. MS. MAZZANTI: And did you attend at hat time? DENNIS HAAG: I believe my fire marshal ttended the 2010 session. MS. MAZZANTI: And my last question is,	4 5 6 7	MR. CLANON: And I want to get to the discussion we had this morning about what you knew
MS. MAZZANTI: And did you attend at hat time? DENNIS HAAG: I believe my fire marshal ttended the 2010 session. MS. MAZZANTI: And my last question is,	5 6 7	discussion we had this morning about what you knew
hat time? DENNIS HAAG: I believe my fire marshal ttended the 2010 session. MS. MAZZANTI: And my last question is,	6 7	
DENNIS HAAG: I believe my fire marshal ttended the 2010 session. MS. MAZZANTI: And my last question is,	7	about the pipeline in advance. And, in general,
ttended the 2010 session. MS. MAZZANTI: And my last question is,		
MS. MAZZANTI: And my last question is,	8	you didn't know much about the pipeline in the
		fire department.
he had we use a second days of the stime of the second states of	9	Does that also mean you didn't know
he hydrants were dry at the time because there	10	where the valves were?
vas no water supply after the explosion; correct?	11	DENNIS HAAG: No, we did know.
DENNIS HAAG: Correct.	12	MR. CLANON: Had you known that there
MS. MAZZANTI: How long was it before	13	was a gas pipeline there, or had your dispatchers
you were able to get water to the scene?	14	known and your immediate responders, what would
DENNIS HAAG: Without giving you an	15	have been different? The way I understand this,
xact time, it probably took us 30 to 40 minutes	16	some of the earlier reports were people
o get out some water, and in the meantime we	17	believed that there had been a plane crash, for
brought up water tenders to provide assistance for	18	example, had you known or had any of the
hat.	19	dispatchers known in advance that there was a gas
MS. MAZZANTI: Thank you. No further	20	transmission line through there, what might have
-		gone down differently?
CHAIRMAN HERSMAN: CPUC.	22	DENNIS HAAG: The initial reports on the
Page 407		Page 409
MR CLANON: Thank you I'm Paul	1	incident was a plane down. And that those
		reports continued for the first 45 minutes. You
		know, with the airport being as close as it is to
		this site, you know, initial we thought that
-		that was a possibility, obviously.
	6	Our response to the incident would not
orrect?	7	have changed, whether it was an airliner down or
DENNIS HAAG: Correct.	8	the explosion itself, you know, or a tactical
MR. CLANON: And you were there during	9	dispatch, our strategy would be the same, fighting
he course of the evening and you saw and, in	10	what we saw, and then we're trying to adapt and
act, you ordered [inaudible].	11	control. That's the same issue occurring.
DENNIS HAAG: Correct.	12	MR. CLANON: I've asked for an exhibit
MR. CLANON: What was it like?	13	to come up, it's Exhibit 2BC, this is just a map
DENNIS HAAG: Well, in my 30 years I've	14	of the subdivision that shows the fire damage.
ever seen anything like that. Obviously, you	15	And I want to talk about what might have
now, San Mateo County has the State of	16	8 , 8
California uses their [inaudible] system probably	17	shut off earlier.
s frequent as anyone but in our county, we have	18	So we heard yesterday that there was
rawn boundaries in our response, we have a		that there was a period of about an hour or so, it
entral dispatch for fire, so ordering up		took about an hour or so longer to cut off the gas
esources I think we had over 68 firefighters on		that was coming in to, both directions, to the
he scene within 22 minutes.	22	ruptured pipe in San Bruno on September 9th, than
	xact time, it probably took us 30 to 40 minutes o get out some water, and in the meantime we rought up water tenders to provide assistance for nat. MS. MAZZANTI: Thank you. No further uestions. CHAIRMAN HERSMAN: CPUC. Page 407 MR. CLANON: Thank you. I'm Paul Clanon. I'll be representing the Public Utilities commission. A couple of questions for Chief Haag. Chief, you were there the night of the neident, you were out at the scene after the xplosion, and took command of the incident; orrect? DENNIS HAAG: Correct. MR. CLANON: And you were there during ne course of the evening and you saw and, in net, you ordered [inaudible]. DENNIS HAAG: Correct. MR. CLANON: What was it like? DENNIS HAAG: Well, in my 30 years I've ever seen anything like that. Obviously, you now, San Mateo County has the State of California uses their [inaudible] system probably s frequent as anyone but in our county, we have rawn boundaries in our response, we have a entral dispatch for fire, so ordering up	xact time, it probably took us 30 to 40 minutes16o get out some water, and in the meantime we17rought up water tenders to provide assistance for18nat.19MS. MAZZANTI: Thank you. No further20uestions.21CHAIRMAN HERSMAN: CPUC.22Page 407MR. CLANON: Thank you. I'm PaulChief, you were there the night of theChief, you were there the night of thechief, you were there the night of thechief, you were out at the scene after thexplosion, and took command of the incident;orrect?DENNIS HAAG: Correct.MR. CLANON: And you were there duringne course of the evening and you saw and, inact, you ordered [inaudible].DENNIS HAAG: Correct.MR. CLANON: What was it like?DENNIS HAAG: Well, in my 30 years I'veever seen anything like that. Obviously, younow, San Mateo County has the State ofcalifornia uses their [inaudible] system probablys frequent as anyone but in our county, we haverawn boundaries in our response, we have aaentral dispatch for fire, so ordering up

	1	it might have had there been remote control	1	DENNIS HAAG: Again, we've been
	2	valves, for example. So roughly for an hour or	2	instructed by Madam Chair not to speculate. And,
	3	so. I'm not going to hold you to that number.	3	my honest opinion, I would be speculating.
	4	What I'm curious to know is what the	4	Obviously, we had the initial explosion
	5	impact of that hour was.	5	without the fuel supply. There's a possibility we
	6	You were nearby I'm not sure where	6	could have been, instead of in a defensive mode,
	7	your command center was. I think it was just off		in an offensive mode. But I couldn't tell you
		this map; is that right?	8	
	9	DENNIS HAAG: Actually it was just off	9	MR. CLANON: So it could have been
	10	the San Bruno Avenue and Glenview, which	10	beneficial but I certainly don't want you to
	11	MR. CLANON: Just below this map?		speculate. Thank you. And my time is up. Thank
	12	DENNIS HAAG: It's going to be at the		you.
	13	lower end of the interstate	13	CHAIRMAN HERSMAN: Okay. Just so the
	14	MR. CLANON: And just to situate the		parties and the witnesses are clear, it's it's
	15	folks here, so the purple shows fire destroyed		perfectly fine to ask questions that are factual
		properties, the yellow shows damage, and then the		in nature. The witnesses are experts in their
		green undamaged, I think.		certain areas, and that's where they're here, and
	18	Do you happen to know what those black		so we do want to ask questions where your
	10 19	bars mean? I don't know.		qualifications can actually shed light on them.
				We just want to keep the questions in a
	20	DENNIS HAAG: On this map, I believe	20	• • •
	21			factual nature, and so if you were asked, what
	22	MR. CLANON: Security gates. Okay. And	22	damage might have been done in the 30 seconds or
		Page 411		Page 413
				-
	1	the valves, they're	1	the first 15 minutes after the response, given
	2	MR. JOHNSON: Ms. Chairman, this is a	2	your experience as a fire official, that might be
	3	little off topic, and we're talking about a lot of	3	something that's in your purview rather than
	4	speculation.	4	speculation.
	5	MR. CLANON: Let me ask the Ms.	5	So, just if we can help the parties, if
	6	Chairman, and please tell me if it's off the	6	you have any questions, we can get through that
	7	topic.	7	again.
	8	My basic question is, in terms of public	8	I note PHMSA, PG&E and San Bruno all
	9	awareness since the fire department didn't know	9	have witnesses on this panel, so we'll go to PHMSA
- 1		1		
	TO	about the valves and didn't know how to navigate	10	first.
			10 11	first. MR. WIESE: Great. Thank you very much.
	11	about the valves and didn't know how to navigate	11	
	11 12	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the	11 12	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can
	11 12 13	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the situation on the ground that night.	11 12 13	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the
	11 12 13 14	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the	11 12 13 14	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the emergency response community represented by
	11 12 13 14	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the situation on the ground that night. And I'm perfectly happy to take that off the table if that's	11 12 13 14 15	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the emergency response community represented by Mr. Narva and others, or whether it's the industry
	11 12 13 14 15 16	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the situation on the ground that night. And I'm perfectly happy to take that off the table if that's CHAIRMAN HERSMAN: Mr. Clanon, it's	11 12 13 14 15 16	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the emergency response community represented by Mr. Narva and others, or whether it's the industry or the regulators, get the attention of local
	11 12 13 14 15 16 17	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the situation on the ground that night. And I'm perfectly happy to take that off the table if that's CHAIRMAN HERSMAN: Mr. Clanon, it's fine. We're on topic.	11 12 13 14 15 16 17	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the emergency response community represented by Mr. Narva and others, or whether it's the industry or the regulators, get the attention of local officials, including first responders, prior to a
	11 12 13 14 15 16 17 18	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the situation on the ground that night. And I'm perfectly happy to take that off the table if that's CHAIRMAN HERSMAN: Mr. Clanon, it's fine. We're on topic. If you could just speak up a little bit,	11 12 13 14 15 16 17 18	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the emergency response community represented by Mr. Narva and others, or whether it's the industry or the regulators, get the attention of local officials, including first responders, prior to a failure.
	11 12 13 14 15 16 17 18 19	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the situation on the ground that night. And I'm perfectly happy to take that off the table if that's CHAIRMAN HERSMAN: Mr. Clanon, it's fine. We're on topic. If you could just speak up a little bit, and ask a specific question to the Chief.	11 12 13 14 15 16 17 18 19	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the emergency response community represented by Mr. Narva and others, or whether it's the industry or the regulators, get the attention of local officials, including first responders, prior to a failure. We will see a lot of efforts that will
	11 12 13 14 15 16 17 18 19 20	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the situation on the ground that night. And I'm perfectly happy to take that off the table if that's CHAIRMAN HERSMAN: Mr. Clanon, it's fine. We're on topic. If you could just speak up a little bit, and ask a specific question to the Chief. MR. CLANON: If the gas had been turned	11 12 13 14 15 16 17 18 19 20	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the emergency response community represented by Mr. Narva and others, or whether it's the industry or the regulators, get the attention of local officials, including first responders, prior to a failure. We will see a lot of efforts that will be going out. But as a couple of people have
	11 12 13 14 15 16 17 18 19 20 21	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the situation on the ground that night. And I'm perfectly happy to take that off the table if that's CHAIRMAN HERSMAN: Mr. Clanon, it's fine. We're on topic. If you could just speak up a little bit, and ask a specific question to the Chief. MR. CLANON: If the gas had been turned off a little earlier what, in fact, would have	11 12 13 14 15 16 17 18 19 20 21	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the emergency response community represented by Mr. Narva and others, or whether it's the industry or the regulators, get the attention of local officials, including first responders, prior to a failure. We will see a lot of efforts that will be going out. But as a couple of people have said, the communication has to go two ways. It's
	11 12 13 14 15 16 17 18 19 20 21	about the valves and didn't know how to navigate closing the valves, what impact that had and whether advanced knowledge might have changed the situation on the ground that night. And I'm perfectly happy to take that off the table if that's CHAIRMAN HERSMAN: Mr. Clanon, it's fine. We're on topic. If you could just speak up a little bit, and ask a specific question to the Chief. MR. CLANON: If the gas had been turned	11 12 13 14 15 16 17 18 19 20 21	MR. WIESE: Great. Thank you very much. I would just like to solicit your ideas on how can we collectively, whether it be emergent the emergency response community represented by Mr. Narva and others, or whether it's the industry or the regulators, get the attention of local officials, including first responders, prior to a failure. We will see a lot of efforts that will be going out. But as a couple of people have

Page 410

Page 412

PG	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 414		Page 416
1	have your hands full on a daily basis and if you	1	I'll open it up to anyone's comments on
	don't have a history of failures, how do we get		this one, but it's, having myself been involved in
	your attention prior to a failure?	1	public awareness for a number of years, one of the
4	I welcome any ideas.		things we're constantly struggling with is the
	DENNIS HAAG: Well, if the awareness	1	difference between the awareness and behavioral
5			
	isn't any higher right now, I'd be very		change.
	disappointed, on the fire side.	7	You know, awareness is the first step,
8	So I think the opportunity to jump on	1	you know, and I just welcome any thoughts and,
9	11 5		Carl, we've had this conversation ourselves about,
	Service would collaborate, hopefully, you know, in	1	how do you once you gain awareness, how do you
	a much greater effort than they have been, but I'm	1	get people to change behavior? 811 is a perfect
12	in, put it that way.	12	example. People know you need to call before you
13	MR. WIESE: My next question, and,	13	8 5
14	hopefully, leading off to that, would be to	14	it. So, just anyone that wants a swing at that
15	Mr. Narva.	15	one.
16	Have you gotten much feedback or	16	You know, not having the opportunity to
17	recognition for the Pipeline Emergencies Program	17	sit across from Carl that often, maybe we can
18	and, again, maybe just to connect to the Chief's	18	point to Carl to answer this.
19	thoughts, your ideas on how we can get the	19	CARL WEIMER: Well, I think the key to
20	information that's already been developed more	20	building upon awareness to actually get to the
21	rapidly into the hands of emergency responders.	21	behavior change really results from really
22	JAMES NARVA: Sure. The Pipeline	22	drilling down and looking at the incentives and
	Page 415		Page 417
1	Emergencies, I mentioned in the earlier session,	1	barriers for people that make those types of
	is a program that's been around for about seven	1	behavior changes and addressing those. And that's
	years. It's continually evolving. We are now	1	something that I think we all need to work on
	just finishing up a second edition, and part of		harder.
	that second edition is to make it electronic. I	5	Some of it even goes to the previous
6	alluded to that briefly.		question about who's just doing the communication.
7	It will be deployed in an electronic	1	You know, we have Chief Haag now, who could be a
	portal so it is available to any emergency	8	great communicator with other people in the fire
	responder at their convenience, their time, and		industry, more so than receiving that
	also do it in a way that's that's measurable		
	and trackable, so that we know how far they've	10	more receptive to hearing from him.
11	· · · ·		The mayor from San Bruno could
	gone in the curriculum. We can measure learning.	12	•
13	Wa can mangura the communication and the		communicate with other local public officials, and
	We can measure the communication and the	13	÷
	awareness. And then to couple that with a	14	I think that would be one way to help open the
15	awareness. And then to couple that with a communication piece, so that whether it's the	14 15	I think that would be one way to help open the door up to move things toward behavior change.
15 16	awareness. And then to couple that with a communication piece, so that whether it's the National Association of State Fire Marshals or a	14 15 16	I think that would be one way to help open the door up to move things toward behavior change. TERRY BOSS: I might want to add, Jeff,
15 16 17	awareness. And then to couple that with a communication piece, so that whether it's the National Association of State Fire Marshals or a pipeline operator, has the ability to	14 15 16 17	I think that would be one way to help open the door up to move things toward behavior change. TERRY BOSS: I might want to add, Jeff, that Carl had a good description on how to
15 16 17 18	awareness. And then to couple that with a communication piece, so that whether it's the National Association of State Fire Marshals or a pipeline operator, has the ability to electronically communicate with emergency	14 15 16 17 18	I think that would be one way to help open the door up to move things toward behavior change. TERRY BOSS: I might want to add, Jeff, that Carl had a good description on how to emotionally communicate to people and if they're
15 16 17 18 19	awareness. And then to couple that with a communication piece, so that whether it's the National Association of State Fire Marshals or a pipeline operator, has the ability to electronically communicate with emergency responders, and also to track that. So,	14 15 16 17 18 19	I think that would be one way to help open the door up to move things toward behavior change. TERRY BOSS: I might want to add, Jeff, that Carl had a good description on how to emotionally communicate to people and if they're receiving messages or not, and, basically, what
15 16 17 18 19 20	awareness. And then to couple that with a communication piece, so that whether it's the National Association of State Fire Marshals or a pipeline operator, has the ability to electronically communicate with emergency responders, and also to track that. So, technology will get us a long way, I think.	14 15 16 17 18 19 20	I think that would be one way to help open the door up to move things toward behavior change. TERRY BOSS: I might want to add, Jeff, that Carl had a good description on how to emotionally communicate to people and if they're receiving messages or not, and, basically, what kind of mood they're in. First, when they see it,
15 16 17 18 19 20 21	awareness. And then to couple that with a communication piece, so that whether it's the National Association of State Fire Marshals or a pipeline operator, has the ability to electronically communicate with emergency responders, and also to track that. So, technology will get us a long way, I think. MR. WIESE: Thank you very much. I	14 15 16 17 18 19 20 21	I think that would be one way to help open the door up to move things toward behavior change. TERRY BOSS: I might want to add, Jeff, that Carl had a good description on how to emotionally communicate to people and if they're receiving messages or not, and, basically, what kind of mood they're in. First, when they see it, they tend to have a different mood. And all of a
15 16 17 18 19 20 21	awareness. And then to couple that with a communication piece, so that whether it's the National Association of State Fire Marshals or a pipeline operator, has the ability to electronically communicate with emergency responders, and also to track that. So, technology will get us a long way, I think.	14 15 16 17 18 19 20 21	I think that would be one way to help open the door up to move things toward behavior change. TERRY BOSS: I might want to add, Jeff, that Carl had a good description on how to emotionally communicate to people and if they're receiving messages or not, and, basically, what kind of mood they're in. First, when they see it,

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Earlier this morning during the Technical Panel discussion you had started to discuss what is covered at the public liaison meeting, and the responding to gas and electric emergency seminars that PG&E puts on. Would you care to share your thoughts? AARON REZENDEZ: Yeah. The public liaison meeting is intended to increase partnership and coordination among the local group	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	professionals. We've had other operators come to these, as well as public works departments. Feedback has been extremely positive. What we cover are, you know, the foundational issues, what does the infrastructure look, like both gas and electric, what kind of hazards might be encountered, staff and touch potential, why pinching off the line or stopping the flow of gas could be a potential issue. We talk about transmission level issues. We actually hand a handout out, that includes the evacuation instances for various pipe sizes and pressures. Mad then in follow-up we even provide them all of the resources that were used, build a class. Most of these are free and available for them to go and access online, or actually order the books and materials that are being provided. MR. JOHNSON: Thank you. One further question. Earlier today we talked about new technologies and new opportunities to educate the public on the location of gas transmission
	Page 419		Page 421
1	incidents which have occurred to understand what	1	ninelines
	incidents, which have occurred, to understand what	1	pipelines.
	might have been learned, as well as go over	2	Can you talk a little bit about what
2	incidents, which have occurred, to understand what might have been learned, as well as go over various aspects of gas and electric	2	pipelines. Can you talk a little bit about what PG&E's done in that regard.
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
6	is certainly a level of understanding that we	6	officials. I'd like to call up a slide,
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
6	is certainly a level of understanding that we	6	officials. I'd like to call up a slide,
7	would want to convey around that infrastructure.	7	Exhibit 4Y, and while that's coming up, just a
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
6	is certainly a level of understanding that we	6	officials. I'd like to call up a slide,
7	would want to convey around that infrastructure.	7	Exhibit 4Y, and while that's coming up, just a
8	But I think most importantly is the	8	couple of comments.
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
6	is certainly a level of understanding that we	6	officials. I'd like to call up a slide,
7	would want to convey around that infrastructure.	7	Exhibit 4Y, and while that's coming up, just a
8	But I think most importantly is the	8	couple of comments.
9	communication that you meet a person, a	9	It was mentioned a little bit earlier
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
6	is certainly a level of understanding that we	6	officials. I'd like to call up a slide,
7	would want to convey around that infrastructure.	7	Exhibit 4Y, and while that's coming up, just a
8	But I think most importantly is the	8	couple of comments.
9	communication that you meet a person, a	9	It was mentioned a little bit earlier
10	communication, that occurs, as well as providing	10	that the National Pipeline Mapping System has been
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
6	is certainly a level of understanding that we	6	officials. I'd like to call up a slide,
7	would want to convey around that infrastructure.	7	Exhibit 4Y, and while that's coming up, just a
8	But I think most importantly is the	8	couple of comments.
9	communication that you meet a person, a	9	It was mentioned a little bit earlier
10	communication, that occurs, as well as providing	10	that the National Pipeline Mapping System has been
11	them contact information, for example, our	11	usually the go-to point in a variety of
2 3 4 5 6 7 8 9 10 11 12	might have been learned, as well as go over various aspects of gas and electric infrastructure, as it is high-tech, if you may, and at its basis, is very complicated. And there is certainly a level of understanding that we would want to convey around that infrastructure. But I think most importantly is the communication that you meet a person, a communication, that occurs, as well as providing	2 3 4 5 6 7 8 9 10 11 12	Can you talk a little bit about what PG&E's done in that regard. AARON REZENDEZ: Sure. I also mentioned that we had a lot of meetings with public officials. I'd like to call up a slide, Exhibit 4Y, and while that's coming up, just a couple of comments. It was mentioned a little bit earlier that the National Pipeline Mapping System has been
2 3 4 5 6 7 8 9 10 11 12 13	might have been learned, as well as go over various aspects of gas and electric infrastructure, as it is high-tech, if you may, and at its basis, is very complicated. And there is certainly a level of understanding that we would want to convey around that infrastructure. But I think most importantly is the communication that you meet a person, a communication, that occurs, as well as providing them contact information, for example, our designated 911 number for the emergency response	2 3 4 5 6 7 8 9 10 11 12	Can you talk a little bit about what PG&E's done in that regard. AARON REZENDEZ: Sure. I also mentioned that we had a lot of meetings with public officials. I'd like to call up a slide, Exhibit 4Y, and while that's coming up, just a couple of comments. It was mentioned a little bit earlier that the National Pipeline Mapping System has been usually the go-to point in a variety of communications, whether it be the affected public,
2 3 4 5 6 7 8 9 10 11 12 13 13 14	might have been learned, as well as go over various aspects of gas and electric infrastructure, as it is high-tech, if you may, and at its basis, is very complicated. And there is certainly a level of understanding that we would want to convey around that infrastructure. But I think most importantly is the communication that you meet a person, a communication, that occurs, as well as providing them contact information, for example, our designated 911 number for the emergency response community exclusively and allowing them, and	2 3 4 5 6 7 8 9 10 11 12 13 14	Can you talk a little bit about what PG&E's done in that regard. AARON REZENDEZ: Sure. I also mentioned that we had a lot of meetings with public officials. I'd like to call up a slide, Exhibit 4Y, and while that's coming up, just a couple of comments. It was mentioned a little bit earlier that the National Pipeline Mapping System has been usually the go-to point in a variety of communications, whether it be the affected public, public officials, or emergency responders.
2 3 4 5 6 7 8 9 10 11 12 13 13 14	might have been learned, as well as go over various aspects of gas and electric infrastructure, as it is high-tech, if you may, and at its basis, is very complicated. And there is certainly a level of understanding that we would want to convey around that infrastructure. But I think most importantly is the communication that you meet a person, a communication, that occurs, as well as providing them contact information, for example, our designated 911 number for the emergency response community exclusively and allowing them, and letting them understand how that looks and feels	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Can you talk a little bit about what PG&E's done in that regard. AARON REZENDEZ: Sure. I also mentioned that we had a lot of meetings with public officials. I'd like to call up a slide, Exhibit 4Y, and while that's coming up, just a couple of comments. It was mentioned a little bit earlier that the National Pipeline Mapping System has been usually the go-to point in a variety of communications, whether it be the affected public, public officials, or emergency responders. What we did was actually incorporated a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	might have been learned, as well as go over various aspects of gas and electric infrastructure, as it is high-tech, if you may, and at its basis, is very complicated. And there is certainly a level of understanding that we would want to convey around that infrastructure. But I think most importantly is the communication that you meet a person, a communication, that occurs, as well as providing them contact information, for example, our designated 911 number for the emergency response community exclusively and allowing them, and letting them understand how that looks and feels when they make that phone call into our dispatch. MR. JOHNSON: Do you care to cover what's your handle on your gas and electric	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Can you talk a little bit about what PG&E's done in that regard. AARON REZENDEZ: Sure. I also mentioned that we had a lot of meetings with public officials. I'd like to call up a slide, Exhibit 4Y, and while that's coming up, just a couple of comments. It was mentioned a little bit earlier that the National Pipeline Mapping System has been usually the go-to point in a variety of communications, whether it be the affected public, public officials, or emergency responders. What we did was actually incorporated a map within our website that allows the user to type in any address, whether it be their home, their business, or a family member. What you're
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
6	is certainly a level of understanding that we	6	officials. I'd like to call up a slide,
7	would want to convey around that infrastructure.	7	Exhibit 4Y, and while that's coming up, just a
8	But I think most importantly is the	8	couple of comments.
9	communication that you meet a person, a	9	It was mentioned a little bit earlier
10	communication, that occurs, as well as providing	10	that the National Pipeline Mapping System has been
11	them contact information, for example, our	11	usually the go-to point in a variety of
12	designated 911 number for the emergency response	12	communications, whether it be the affected public,
13	community exclusively and allowing them, and	13	public officials, or emergency responders.
14	letting them understand how that looks and feels	14	What we did was actually incorporated a
15	when they make that phone call into our dispatch.	15	map within our website that allows the user to
16	MR. JOHNSON: Do you care to cover	16	type in any address, whether it be their home,
17	what's your handle on your gas and electric	17	their business, or a family member. What you're
18	emergency seminar information?	18	seeing right now is actually a localized map
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
6	is certainly a level of understanding that we	6	officials. I'd like to call up a slide,
7	would want to convey around that infrastructure.	7	Exhibit 4Y, and while that's coming up, just a
8	But I think most importantly is the	8	couple of comments.
9	communication that you meet a person, a	9	It was mentioned a little bit earlier
10	communication, that occurs, as well as providing	10	that the National Pipeline Mapping System has been
11	them contact information, for example, our	11	usually the go-to point in a variety of
12	designated 911 number for the emergency response	12	communications, whether it be the affected public,
13	community exclusively and allowing them, and	13	public officials, or emergency responders.
14	letting them understand how that looks and feels	14	What we did was actually incorporated a
15	when they make that phone call into our dispatch.	15	map within our website that allows the user to
16	MR. JOHNSON: Do you care to cover	16	type in any address, whether it be their home,
17	what's your handle on your gas and electric	17	their business, or a family member. What you're
18	emergency seminar information?	18	seeing right now is actually a localized map
19	AARON REZENDEZ: In general, we've had	19	that's available through their "My Account"
2	might have been learned, as well as go over	2	Can you talk a little bit about what
3	various aspects of gas and electric	3	PG&E's done in that regard.
4	infrastructure, as it is high-tech, if you may,	4	AARON REZENDEZ: Sure. I also mentioned
5	and at its basis, is very complicated. And there	5	that we had a lot of meetings with public
6	is certainly a level of understanding that we	6	officials. I'd like to call up a slide,
7	would want to convey around that infrastructure.	7	Exhibit 4Y, and while that's coming up, just a
8	But I think most importantly is the	8	couple of comments.
9	communication that you meet a person, a	9	It was mentioned a little bit earlier
10	communication, that occurs, as well as providing	10	that the National Pipeline Mapping System has been
11	them contact information, for example, our	11	usually the go-to point in a variety of
12	designated 911 number for the emergency response	12	communications, whether it be the affected public,
13	community exclusively and allowing them, and	13	public officials, or emergency responders.
14	letting them understand how that looks and feels	14	What we did was actually incorporated a
15	when they make that phone call into our dispatch.	15	map within our website that allows the user to
16	MR. JOHNSON: Do you care to cover	16	type in any address, whether it be their home,
17	what's your handle on your gas and electric	17	their business, or a family member. What you're
18	emergency seminar information?	18	seeing right now is actually a localized map
19	AARON REZENDEZ: In general, we've had	19	that's available through their "My Account"
20	22 classes so far across our service territory.	20	feature, that being the feature that you go in, to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	might have been learned, as well as go over various aspects of gas and electric infrastructure, as it is high-tech, if you may, and at its basis, is very complicated. And there is certainly a level of understanding that we would want to convey around that infrastructure. But I think most importantly is the communication that you meet a person, a communication, that occurs, as well as providing them contact information, for example, our designated 911 number for the emergency response community exclusively and allowing them, and letting them understand how that looks and feels when they make that phone call into our dispatch. MR. JOHNSON: Do you care to cover what's your handle on your gas and electric emergency seminar information? AARON REZENDEZ: In general, we've had	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Can you talk a little bit about what PG&E's done in that regard. AARON REZENDEZ: Sure. I also mentioned that we had a lot of meetings with public officials. I'd like to call up a slide, Exhibit 4Y, and while that's coming up, just a couple of comments. It was mentioned a little bit earlier that the National Pipeline Mapping System has been usually the go-to point in a variety of communications, whether it be the affected public, public officials, or emergency responders. What we did was actually incorporated a map within our website that allows the user to type in any address, whether it be their home, their business, or a family member. What you're seeing right now is actually a localized map that's available through their "My Account"

Page 418

March 2, 2011 Page 420

	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 422		Page 424
1	about a two-mile radius around the home, so it	1	the effectiveness of PG&E's public awareness
2	actually gets down to the street level so the	2	program relative to Regulation API 1162?
	individual in that in that spot, if you may,	3	
4	would be able to know specifically where these	4	The Inspection Enforcement Authority for PG&E is
	pipelines are located.	5	the California Public Utilities Commission. So
6	Beyond that, we've also designated an	6	the inspection will be done by that agency.
7	888 number, if people are wanting additional	7	Originally, when the pipeline operators
	information, for which they can get that	8	first completed their public awareness written
	information as well.	1	programs, there was a clearinghouse, and the
10	MR. JOHNSON: Thank you. I have no		clearinghouse reviewed all of the requirements
11	further questions.		that are in 1162, on the programs.
12	CHAIRMAN HERSMAN: We'll finish with the	12	
13	City of San Bruno.	13	review was sent to the California Public Utilities
14	CONNIE JACKS: Thank you. With that	14	Commission, and the additional activity that
15	exhibit still up, I have a quick follow-up	15	occurred between that time and now would have been
16	question. Is that the scale Mr. Mendez	16	done by the California Public Utilities
17	AARON REZENDEZ: Rezendez.	17	Commission.
18	CONNIE JACKS: Is that the scale that	18	PETER LIDIAK: I'll just mention because
19	that map is currently available to members of the	19	PG&E does participate in our papers program, they
20	public?	20	were part of the surveys done for that region, and
21	AARON REZENDEZ: Yes, it is, that, if	21	that data would be available to the company
22	you were the one to log in today to "My Account"	22	CHAIRMAN HERSMAN: I'm sorry. I don't
	Page 423		Page 425
			· · · · · ·
1	you would see that map	1	think that you mike is on.
1	you would see that map CONNIE JACKS: At the scale that it	1	think that you mike is on.
2	•	2	think that you mike is on.
2	CONNIE JACKS: At the scale that it	2 3	think that you mike is on. PETER LIDIAK: Because PG&E does
2 3	CONNIE JACKS: At the scale that it shows.	2 3 4	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of
2 3 4 5	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct.	2 3 4 5	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that
2 3 4 5 6	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your	2 3 4 5 6	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them
2 3 4 5 6 7	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online	2 3 4 5 6	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for
2 3 4 5 6 7 8	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well	2 3 4 5 6 7 8	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible].
2 3 4 5 6 7 8 9	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does	2 3 4 5 6 7 8 9	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked
2 3 4 5 6 7 8 9	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for	2 3 4 5 6 7 8 9	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at
2 3 4 5 6 7 8 9 10 11	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders?	2 3 4 5 6 7 8 9 10	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry.
2 3 4 5 6 7 8 9 10 11 12	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the	2 3 4 5 6 7 8 9 10 11 12	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the
2 3 4 5 6 7 8 9 10 11 12 13	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the information that is there is adequate, especially	2 3 4 5 6 7 8 9 10 11 12	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the purposes of the trade association is to share information among their members
2 3 4 5 6 7 8 9 10 11 12 13 14	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the information that is there is adequate, especially when it's coupled with the other information that	2 3 4 5 6 7 8 9 10 11 12 13 14	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the purposes of the trade association is to share information among their members
2 3 4 5 6 7 8 9 10 11 12 13 14 15	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the information that is there is adequate, especially when it's coupled with the other information that is available by going directly with the pipeline	2 3 4 5 6 7 8 9 10 11 12 13 14	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the purposes of the trade association is to share information among their members CHAIRMAN HERSMAN: Please put the microphone just a little closer.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the information that is there is adequate, especially when it's coupled with the other information that is available by going directly with the pipeline operators. We're continually working on our NPMS	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the purposes of the trade association is to share information among their members CHAIRMAN HERSMAN: Please put the microphone just a little closer.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the information that is there is adequate, especially when it's coupled with the other information that is available by going directly with the pipeline operators. We're continually working on our NPMS and advising and issuing upgrades to us. So yes,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the purposes of the trade association is to share information among their members CHAIRMAN HERSMAN: Please put the microphone just a little closer. TERRY BOSS: One of the functions of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the information that is there is adequate, especially when it's coupled with the other information that is available by going directly with the pipeline operators. We're continually working on our NPMS and advising and issuing upgrades to us. So yes, I believe it is adequate especially coupled with	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the purposes of the trade association is to share information among their members CHAIRMAN HERSMAN: Please put the microphone just a little closer. TERRY BOSS: One of the functions of the trade association is to share information among the members, be they regulatory efforts or workshops, so there would be an informal feedback
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the information that is there is adequate, especially when it's coupled with the other information that is available by going directly with the pipeline operators. We're continually working on our NPMS and advising and issuing upgrades to us. So yes, I believe it is adequate especially coupled with the other outreach efforts. CONNIE JACKS: A question for Mr. Lidiak, Mr. Boss, Mr. Weimer, and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the purposes of the trade association is to share information among their members CHAIRMAN HERSMAN: Please put the microphone just a little closer. TERRY BOSS: One of the functions of the trade association is to share information among the members, be they regulatory efforts or workshops, so there would be an informal feedback connected as less concerns on individual companies
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the information that is there is adequate, especially when it's coupled with the other information that is available by going directly with the pipeline operators. We're continually working on our NPMS and advising and issuing upgrades to us. So yes, I believe it is adequate especially coupled with the other outreach efforts. CONNIE JACKS: A question for Mr. Lidiak, Mr. Boss, Mr. Weimer, and Ms. Robertson.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the purposes of the trade association is to share information among their members CHAIRMAN HERSMAN: Please put the microphone just a little closer. TERRY BOSS: One of the functions of the trade association is to share information among the members, be they regulatory efforts or workshops, so there would be an informal feedback connected as less concerns on individual companies [inaudible] belonged to, and in some cases will
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CONNIE JACKS: At the scale that it shows. AARON REZENDEZ: That's correct. CONNIE JACKS: Ms. Robertson, in your opinion, is the Federal Map System, the online tool that's available both to the public as well as to emergency responders, in your opinion does that provide an adequate level of information for preparedness to first responders? ANNMARIE ROBERTSON: I believe the information that is there is adequate, especially when it's coupled with the other information that is available by going directly with the pipeline operators. We're continually working on our NPMS and advising and issuing upgrades to us. So yes, I believe it is adequate especially coupled with the other outreach efforts. CONNIE JACKS: A question for Mr. Lidiak, Mr. Boss, Mr. Weimer, and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	think that you mike is on. PETER LIDIAK: Because PG&E does participate in papers program, they were part of the surveys done in that region, and that information would have been presented back to them as part of their part of their records for their [inaudible]. We would not we would not have looked at the individual data. We would look at aggregate data for the industry. TERRY BOSS: I would add that one of the purposes of the trade association is to share information among their members CHAIRMAN HERSMAN: Please put the microphone just a little closer. TERRY BOSS: One of the functions of the trade association is to share information among the members, be they regulatory efforts or workshops, so there would be an informal feedback connected as less concerns on individual companies

	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 426		Page 428
1	CARL WEIMER: Just quickly, we haven't	1	result?
	done any specific evaluation of those public	2	
	awareness. The programs are not available to		question regarding the hydrants?
	groups like ourselves or the public, so it would	4	
	be hard to evaluate them; although, the ultimate	-	statement that was made earlier about the dry
	evaluation is what we heard after the San Bruno	1	hydrants.
	tragedy, that the people had no idea.		DENNIS HAAG: About the water main being
		7	
8	CONNIE JACKS: Thank you.	8	CONNIE JACKS: Correct.
9	Mr. Narva, you mentioned earlier that	9	
	your pre-event communication is desirable. If you	10	
	could expound a little bit about how you believe		for correct.
	pipeline operators can improve their public	12	Responding to your second question, I do
	awareness programs, particularly as it relates to		want to thank the NTSB and the Technical Staff for
	information available to local emergency	1	giving us the opportunity to be here and
	responders about the location, operating		participate. My belief is there's players in this
	characteristics and hazards posed by pipelines in		room that can has the ability to see that
	their communities.		something like this doesn't occur again.
18	JAMES NARVA: The importance of having	18	Whether it's through legislation,
	communication before the incident can't be		regulatory training, safety measures, technology,
	understated. We in past years have focused on		so that this doesn't no other community has to
	state-by-state approach of bringing together the		suffer the consequences that we did in San Bruno.
22	emergency responders, pipeline operators, state	22	Thank you.
	D 407		D (00
	Page 427		Page 429
1	Page 427 and federal regulators, all of the stakeholders,	1	
		1	CONNIE JACKS: Thank you.
2	and federal regulators, all of the stakeholders,		CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt.
2	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those	2 3	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt.
2 3 4	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one	2 3 4	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think
2 3 4 5	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what	2 3 4 5	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want
2 3 4 5 6	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that	2 3 4 5 6	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being
2 3 4 5 6 7	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a	2 3 4 5 6 7	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been
2 3 4 5 6 7	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local	2 3 4 5 6 7 8	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi
2 3 4 5 6 7 8 9	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level.	2 3 4 5 6 7 8	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there.
2 3 4 5 6 7 8 9 10	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face	2 3 4 5 6 7 8 9	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there.
2 3 4 5 6 7 8 9 10	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other	2 3 4 5 6 7 8 9	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year
2 3 4 5 6 7 8 9 10 11 12	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer.	2 3 4 5 6 7 8 9 10 11 12	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later.
2 3 4 5 6 7 8 9 10 11 12 13	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer. CONNIE JACKS: If I might just take	2 3 4 5 6 7 8 9 10 11 12 13	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later. I noticed there, and I just went through
2 3 4 5 6 7 8 9 10 11 12 13	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer. CONNIE JACKS: If I might just take another couple of seconds for a question to	2 3 4 5 6 7 8 9 10 11 12 13 14	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later. I noticed there, and I just went through the report this morning, that, in that particular
2 3 4 5 6 7 8 9 10 11 12 13 14 15	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer. CONNIE JACKS: If I might just take another couple of seconds for a question to Chief Haag, a two-part question.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later. I noticed there, and I just went through the report this morning, that, in that particular case, in Carmichael, Mississippi, which is really
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer. CONNIE JACKS: If I might just take another couple of seconds for a question to Chief Haag, a two-part question. First if you could clarify the situation that was raised earlier regarding the "dry	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later. I noticed there, and I just went through the report this morning, that, in that particular case, in Carmichael, Mississippi, which is really an extremely rural community, we had difficulty
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer. CONNIE JACKS: If I might just take another couple of seconds for a question to Chief Haag, a two-part question. First if you could clarify the situation	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later. I noticed there, and I just went through the report this morning, that, in that particular case, in Carmichael, Mississippi, which is really an extremely rural community, we had difficulty even finding the place the one of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer. CONNIE JACKS: If I might just take another couple of seconds for a question to Chief Haag, a two-part question. First if you could clarify the situation that was raised earlier regarding the "dry hydrants," I believe was the word. And then, secondly, I am sure that, even	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later. I noticed there, and I just went through the report this morning, that, in that particular case, in Carmichael, Mississippi, which is really an extremely rural community, we had difficulty even finding the place the one of the callers to 911 immediately knew that it was a gas explosion. So here's a very rural community where
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer. CONNIE JACKS: If I might just take another couple of seconds for a question to Chief Haag, a two-part question. First if you could clarify the situation that was raised earlier regarding the "dry hydrants," I believe was the word. And then, secondly, I am sure that, even in your 30-year career with the Fire Service, that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later. I noticed there, and I just went through the report this morning, that, in that particular case, in Carmichael, Mississippi, which is really an extremely rural community, we had difficulty even finding the place the one of the callers to 911 immediately knew that it was a gas explosion. So here's a very rural community where the residents knew that it was a pipeline
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer. CONNIE JACKS: If I might just take another couple of seconds for a question to Chief Haag, a two-part question. First if you could clarify the situation that was raised earlier regarding the "dry hydrants," I believe was the word. And then, secondly, I am sure that, even in your 30-year career with the Fire Service, that you might not have imagined being before the NTSB	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later. I noticed there, and I just went through the report this morning, that, in that particular case, in Carmichael, Mississippi, which is really an extremely rural community, we had difficulty even finding the place the one of the callers to 911 immediately knew that it was a gas explosion. So here's a very rural community where the residents knew that it was a pipeline explosion, they knew there was a pipeline going
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	and federal regulators, all of the stakeholders, so to speak, in trying to facilitate those communications and understanding what what one another does, what their role is, and what resources that they have. That's something that we need to replicate far more frequently and on a state-by-state approach, as well as at the local level. You just can't replace that face-to-face communication in understanding what the other party has to offer. CONNIE JACKS: If I might just take another couple of seconds for a question to Chief Haag, a two-part question. First if you could clarify the situation that was raised earlier regarding the "dry hydrants," I believe was the word. And then, secondly, I am sure that, even in your 30-year career with the Fire Service, that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	CONNIE JACKS: Thank you. CHAIRMAN HERSMAN: Member Sumwalt. MEMBER SUMWALT: Thank you. I think this has been a very informative panel, and I want to thank all of the panel witnesses for being here. The only pipeline accident that I've been involved with before, in Carmichael, Mississippi about two and a half actually about three and a half years ago and I was on the scene there. And, of course, it came to the Board about a year later. I noticed there, and I just went through the report this morning, that, in that particular case, in Carmichael, Mississippi, which is really an extremely rural community, we had difficulty even finding the place the one of the callers to 911 immediately knew that it was a gas explosion. So here's a very rural community where the residents knew that it was a pipeline

10	GAE Gas Transmission Pipeline - DAY 2		March 2, 201
	Page 430		Page 432
1	it was a liquid propane pipeline going through the	1	San Bruno?
	area. As did the assistant chief of the county	2	DENNIS HAAG: We didn't have the
	volunteer fire department.	3	information; we didn't have maps of a pipeline
4			going through. Obviously, you know, we've heard
	directed to you. I notice that Mr. Narva said		today that there is a system that we can access
	that pipeline information was available to meet		and we I just didn't know about it, to be
	the needs of fire departments on the pipeline		honest with you.
	disasters which, of course, he represents the	8	MEMBER SUMWALT: And I appreciate your
	National Association of State Fire Marshals.	_	candor, but the statement that you agreed with was
10	.		one that said that the fire department should seek
	with that organization? Or do you more interact		out that information. And so I just wanted to
	with the National Association of Fire Chiefs? Or		-
	both?		understand better why that information wasn't
			sought.
14	the California State Fire Marshal's office.	14	Are you personally a PG&E customer?
		15	DENNIS HAAG: Yes, I am.
16	ę ;	16	MEMBER SUMWALT: So what I'm
17	8	17	understanding is that they do mail out public
18		18	5
19	, , ,	19	DENNIS HAAG: I've seen it in the bills.
	said earlier, I have been on the National	20	MEMBER SUMWALT: What exactly does that
	Association State Fire Marshal's website, and		material say if they're mailing it to you, and you
22	actually have downloaded some of the scenarios and	22	don't and you don't and you're not aware of
	Page 431		Page 433
1	Page 431 programs from them.	1	-
1	programs from them.		Page 433 it. What is it they're sending out? Are they saying there's a pipeline going through your area?
2	programs from them.	2	it. What is it they're sending out? Are they
2	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people	2	it. What is it they're sending out? Are they saying there's a pipeline going through your area?
2 3 4	programs from them. MEMBER SUMWALT: I want you speaking	2 3 4	it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying?
2 3 4 5	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I	2 3 4	it. What is it they're sending out? Are they saying there's a pipeline going through your area?Or what exactly is it saying?DENNIS HAAG: I don't live in San Bruno.
2 3 4 5	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me.	2 3 4 5	it. What is it they're sending out? Are they saying there's a pipeline going through your area?Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno.I live in another community.
2 3 4 5 6 7	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me.	2 3 4 5 6 7	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks.
2 3 4 5 6 7 8	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned	2 3 4 5 6 7 8	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it
2 3 4 5 6 7 8 9	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the	2 3 4 5 6 7 8 9	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community?
2 3 4 5 6 7 8 9 10	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that	2 3 4 5 6 7 8 9 10	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you be aware? If
2 3 4 5 6 7 8 9 10 11	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and	2 3 4 5 6 7 8 9 10 11	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you make people
2 3 4 5 6 7 8 9 10 11	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum.	2 3 4 5 6 7 8 9 10 11	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that?
2 3 4 5 6 7 8 9 10 11 12 13	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum. MEMBER SUMWALT: Thank you. Mr. Narva	2 3 4 5 6 7 8 9 10 11 12 13	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that? CARL WEIMER: Well, I think it's a
2 3 4 5 6 7 8 9 10 11 12 13	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum. MEMBER SUMWALT: Thank you. Mr. Narva said that it's the responsibility of the fire	2 3 4 5 6 7 8 9 10 11 12 13	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that? CARL WEIMER: Well, I think it's a shared responsibility. And you can't really
2 3 4 5 6 7 8 9 10 11 12 13 14 15	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum. MEMBER SUMWALT: Thank you. Mr. Narva said that it's the responsibility of the fire departments to seek out information about	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that? CARL WEIMER: Well, I think it's a shared responsibility. And you can't really
2 3 4 5 6 7 8 9 10 11 12 13 14 15	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum. MEMBER SUMWALT: Thank you. Mr. Narva said that it's the responsibility of the fire departments to seek out information about pipelines in their areas.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that? CARL WEIMER: Well, I think it's a shared responsibility. And you can't really expect people to go out and looking for something if they don't know it's there, so I think the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum. MEMBER SUMWALT: Thank you. Mr. Narva said that it's the responsibility of the fire departments to seek out information about pipelines in their areas. And do you agree with that statement?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that? CARL WEIMER: Well, I think it's a shared responsibility. And you can't really expect people to go out and looking for something if they don't know it's there, so I think the industry has a real responsibility to try to get
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum. MEMBER SUMWALT: Thank you. Mr. Narva said that it's the responsibility of the fire departments to seek out information about pipelines in their areas. And do you agree with that statement? DENNIS HAAG: Yes, I do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that? CARL WEIMER: Well, I think it's a shared responsibility. And you can't really expect people to go out and looking for something if they don't know it's there, so I think the industry has a real responsibility to try to get that information into people's hands. But it's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum. MEMBER SUMWALT: Thank you. Mr. Narva said that it's the responsibility of the fire departments to seek out information about pipelines in their areas. And do you agree with that statement? DENNIS HAAG: Yes, I do. MEMBER SUMWALT: I'm curious, then,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that? CARL WEIMER: Well, I think it's a shared responsibility. And you can't really expect people to go out and looking for something if they don't know it's there, so I think the industry has a real responsibility to try to get that information into people's hands. But it's certainly a shared responsibility on everybody's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum. MEMBER SUMWALT: Thank you. Mr. Narva said that it's the responsibility of the fire departments to seek out information about pipelines in their areas. And do you agree with that statement? DENNIS HAAG: Yes, I do. MEMBER SUMWALT: I'm curious, then, what is the particular reason why the San Bruno	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that? CARL WEIMER: Well, I think it's a shared responsibility. And you can't really expect people to go out and looking for something if they don't know it's there, so I think the industry has a real responsibility to try to get that information into people's hands. But it's certainly a shared responsibility on everybody's part.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	programs from them. MEMBER SUMWALT: I want you speaking up. We're having people coughing, and people taking pictures, and I'm an old jet pilot and I can't hear, so grab that mike and speak louder for me. DENNIS HAAG: Gotcha. I had mentioned earlier that I had been on the website with the National Association of State Fire Marshals and actually have downloaded material from that program, and actually put it on our training curriculum. MEMBER SUMWALT: Thank you. Mr. Narva said that it's the responsibility of the fire departments to seek out information about pipelines in their areas. And do you agree with that statement? DENNIS HAAG: Yes, I do. MEMBER SUMWALT: I'm curious, then,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 it. What is it they're sending out? Are they saying there's a pipeline going through your area? Or what exactly is it saying? DENNIS HAAG: I don't live in San Bruno. I live in another community. MEMBER SUMWALT: Okay. Thanks. Mr. Weimer? Whose responsibility is it to find out if a pipeline is in your community? If you're a citizen, should you be aware? If you're a first responder, should you be aware? If you're the gas provider, should you make people aware? All the above? What's the answer to that? CARL WEIMER: Well, I think it's a shared responsibility. And you can't really expect people to go out and looking for something if they don't know it's there, so I think the industry has a real responsibility to try to get that information into people's hands. But it's certainly a shared responsibility on everybody's

	ee Gas Transmission Tipenne - DAT 2		Wiarch 2, 2013
	Page 434		Page 436
1	departments and local emergency planning	1	requirements for public awareness come from for
2	committees, that type of information will flow out	2	intrastate carriers?
3	from both ways.	3	AARON REZENDEZ: They're also inside the
4	MEMBER SUMWALT: Thank you. It's a	4	1162 document [inaudible]
5	shared responsibility.	5	AARON REZENDEZ: 1162.
6	When I was on the airport commission	6	MEMBER WEENER: 1162 based on federal
7	years ago we talked about people that would	7	standards?
	complain about airport noise and we said, well,	8	AARON REZENDEZ: It was the yes, it
	they should be aware what they're getting when	9	references back to 616 [inaudible].
	they buy the property. I don't think that ever	10	MEMBER WEENER: So is the onus entirely
	went anywhere with the real with the state	11	on the carrier for public awareness, or are there
	legislature.		other stakeholders?
13	But I'm wondering, has there ever been	13	AARON REZENDEZ: It actually allows for,
	any thought to disclosure on a on a real estate	14	and we do look for, opportunities to partner with
	contract or something to make people make		other operators who may have mutual interest in
	people aware? I don't know I do not know if		reaching out to communities.
	there's a pipeline going through my neighborhood.	17	MEMBER WEENER: To follow up from
	I don't know that. That's my own lack of		Mr. Sumwalt's question, in a sense is are the
	information there.	19	emergency responders also responsible for public
20	I do know there's a railroad track going	20	
	there because I can see it.		public awareness?
22	(LAUGHTER)	22	AARON REZENDEZ: I think so. We've had
	(
	Page 435		Page 437
1	MEMBER SUMWALT: But has there ever		
1 ±	IVIEIVIDEN SUIVIVIALI. DULHAS HICIE EVEL	1	firefighters in my class with their children. So
			firefighters in my class with their children. So I know to some extent they're reaching out to the
2	been any thought to disclosing information on this	2	I know to some extent they're reaching out to the
2	been any thought to disclosing information on this on a real estate contract?	2 3	I know to some extent they're reaching out to the local community. Does that answer your question?
2 3 4	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been	2 3 4	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you.
2 3 4 5	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning	2 3	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind.
2 3 4 5 6	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a	2 3 4 5 6	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to
2 3 4 5 6 7	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward	2 3 4 5 6 7	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the
2 3 4 5 6 7 8	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a	2 3 4 5 6 7 8	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno
2 3 4 5 6 7 8 9	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure,	2 3 4 5 6 7 8 9	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are
2 3 4 5 6 7 8 9 10	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new	2 3 4 5 6 7 8 9 10	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want
2 3 4 5 6 7 8 9 10	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes.	2 3 4 5 6 7 8 9 10 11	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and
2 3 4 5 6 7 8 9 10 11 12	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much.	2 3 4 5 6 7 8 9 10 11 12	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th,
2 3 4 5 6 7 8 9 10 11 12 13	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to	2 3 4 5 6 7 8 9 10 11 12 13	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always
2 3 4 5 6 7 8 9 10 11 12 13	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to this.	2 3 4 5 6 7 8 9 10 11 12 13 14	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always reminded that there are people who run toward them
2 3 4 5 6 7 8 9 10 11 12 13 14	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to	2 3 4 5 6 7 8 9 10 11 12 13 14	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always reminded that there are people who run toward them on our behalf so we thank you for that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to this. Chairman Hersman, thank you. CHAIRMAN HERSMAN: Member Weener.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always reminded that there are people who run toward them on our behalf so we thank you for that. This is a test for the whole panel. I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to this. Chairman Hersman, thank you. CHAIRMAN HERSMAN: Member Weener. MEMBER WEENER: I have a question for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always reminded that there are people who run toward them on our behalf so we thank you for that. This is a test for the whole panel. I think there's been conceptual discussion about
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to this. Chairman Hersman, thank you. CHAIRMAN HERSMAN: Member Weener. MEMBER WEENER: I have a question for Mr. Rezendez.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always reminded that there are people who run toward them on our behalf so we thank you for that. This is a test for the whole panel. I think there's been conceptual discussion about public and first-responder awareness and I want to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to this. Chairman Hersman, thank you. CHAIRMAN HERSMAN: Member Weener. MEMBER WEENER: I have a question for Mr. Rezendez. Is PG&E an interstate or intrastate	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always reminded that there are people who run toward them on our behalf so we thank you for that. This is a test for the whole panel. I think there's been conceptual discussion about public and first-responder awareness and I want to make this very concrete.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to this. Chairman Hersman, thank you. CHAIRMAN HERSMAN: Member Weener. MEMBER WEENER: I have a question for Mr. Rezendez. Is PG&E an interstate or intrastate carrier?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always reminded that there are people who run toward them on our behalf so we thank you for that. This is a test for the whole panel. I think there's been conceptual discussion about public and first-responder awareness and I want to make this very concrete. So this is a test. No grade, but it's a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to this. Chairman Hersman, thank you. CHAIRMAN HERSMAN: Member Weener. MEMBER WEENER: I have a question for Mr. Rezendez. Is PG&E an interstate or intrastate carrier? AARON REZENDEZ: It's an intrastate.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always reminded that there are people who run toward them on our behalf so we thank you for that. This is a test for the whole panel. I think there's been conceptual discussion about public and first-responder awareness and I want to make this very concrete. So this is a test. No grade, but it's a test. All of you.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	been any thought to disclosing information on this on a real estate contract? CARL WEIMER: There certainly has been thought to that, and the Pipelines Planning Alliance Report that came out a little over a month ago has a recommendation to move forward from state to state I think it has to be a state-by-state thing, to put that in a disclosure, so people have an awareness when they purchase new homes. MEMBER SUMWALT: Thank you very much. And as you said before, awareness is the key to this. Chairman Hersman, thank you. CHAIRMAN HERSMAN: Member Weener. MEMBER WEENER: I have a question for Mr. Rezendez. Is PG&E an interstate or intrastate carrier?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I know to some extent they're reaching out to the local community. Does that answer your question? MEMBER WEENER: Yes. Thank you. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: I just want to say to the Chief Haag, I know you're familiar with the hearing that someone called off for the San Bruno Police Department. And the two of you are representing all the first responders, and I want to make sure we have a chance to acknowledge and thank you for your response on September 9th, because after these tragedies we are always reminded that there are people who run toward them on our behalf so we thank you for that. This is a test for the whole panel. I think there's been conceptual discussion about public and first-responder awareness and I want to make this very concrete. So this is a test. No grade, but it's a

	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 438		Page 440
1	(Indicating)	1	action. Do we have any information, any data,
2	MEMBER ROSEKIND: That's good.		anything, that shows there's something effective
3	Mr. Weimer, if the fire alarm actually goes off,		going on now in the public or the first-responder
	what would you do?	1	side that we're dealing with this effectively?
5	CARL WEIMER: Head towards the closest	5	TERRY BOSS: I think on various parts of
	exits over there.		the program, there are measurements out there.
7	MEMBER ROSEKIND: Walk or run?		The Common Ground Alliance has a reporting system
8	CARL WEIMER: I'd probably walk because	1	called DIRT. And it tries to look at the
_	I don't want to trip over the four people in front		accidents, analyze the accidents, and ask those
	of me.		kinds of questions: If the people knew what was
11	MEMBER ROSEKIND: Thank you. The focus		going on.
	really of this whole discussion about awareness	12	There's an attempt on this program for
	really is out, and I think the Technical Panel and		public awareness, first to understand if there's
	the questions try to go to this. Really the	1	awareness, but during accident investigations,
	objective is knowledge, action. All the surveys,		
	response rates, et cetera, don't get at any of		
	that.	17	MEMBER ROSEKIND: More? We've still got
18	So I'm sure all of you are familiar that	18	a couple minutes here. More?
	before the meeting started, those exits were on	19	CARL WEIMER: Yes. In Washington State
	the screens up here, and then the Chairman gave		because of the Pipeline and Informed Planning
	you specific directions so you could point to	1	Alliance document that's recently come out, we've
	multiple ones.		had an effort for the past year in Washington
	manuple ones.		nud un errore for the pust year in washington
	Page 439		Page 441
1	The challenge is, you have the	1	State to try to engage local public officials
-		-	
2	knowledge you all seem to pass that	2	about planning new pipelines And through some of
	knowledge, you all seem to pass that. The next is do you know the action walk		about planning new pipelines. And through some of those very targeted efforts we've got I think
3	The next is do you know the action, walk	3	those very targeted efforts we've got, I think,
3 4	The next is do you know the action, walk don't run.	3 4	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances
3 4 5	The next is do you know the action, walk don't run. The third part, of course, is what	3 4 5	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to
3 4 5 6	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And	3 4 5 6	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a
3 4 5 6 7	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario,	3 4 5 6 7	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that
3 4 5 6 7 8	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster.	3 4 5 6 7 8	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction.
3 4 5 6 7 8 9	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question	3 4 5 6 7 8 9	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with
3 4 5 6 7 8 9 10	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first	3 4 5 6 7 8 9 10	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit
3 4 5 7 8 9 10 11	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that	3 4 5 6 7 8 9 10 11	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to
3 4 5 6 7 8 9 10 11 12	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address	3 4 5 6 7 8 9 10 11 12	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can
3 4 5 6 7 8 9 10 11 12 13	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action?	3 4 5 6 7 8 9 10 11 12 13	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets.
3 4 5 6 7 8 9 10 11 12 13 14	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action? And you get extra credit if anyone has	3 4 5 6 7 8 9 10 11 12 13 14	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets. It's more difficult to measure the behavior, what
3 4 5 6 7 8 9 10 11 12 13 14	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action? And you get extra credit if anyone has actually shown that that translates into people	3 4 5 6 7 8 9 10 11 12 13 14 15	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets. It's more difficult to measure the behavior, what do you do after you smell gas? But I do know
3 4 5 6 7 8 9 10 11 12 13 14 15 16	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action? And you get extra credit if anyone has actually shown that that translates into people knowing what they're doing.	3 4 5 6 7 8 9 10 11 12 13 14 15 16	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets. It's more difficult to measure the behavior, what do you do after you smell gas? But I do know campaigns where they measure understanding and
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action? And you get extra credit if anyone has actually shown that that translates into people knowing what they're doing. On the public side that means I smell	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets. It's more difficult to measure the behavior, what do you do after you smell gas? But I do know campaigns where they measure understanding and intended behavior if if a customer would smell
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action? And you get extra credit if anyone has actually shown that that translates into people knowing what they're doing. On the public side that means I smell gas, do I know where to call? I'm excavating, do	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets. It's more difficult to measure the behavior, what do you do after you smell gas? But I do know campaigns where they measure understanding and intended behavior if if a customer would smell gas, and they run the campaign and take the same
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action? And you get extra credit if anyone has actually shown that that translates into people knowing what they're doing. On the public side that means I smell gas, do I know where to call? I'm excavating, do I know what to do about that.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets. It's more difficult to measure the behavior, what do you do after you smell gas? But I do know campaigns where they measure understanding and intended behavior if if a customer would smell gas, and they run the campaign and take the same measurements.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action? And you get extra credit if anyone has actually shown that that translates into people knowing what they're doing. On the public side that means I smell gas, do I know where to call? I'm excavating, do I know what to do about that. First responders, where is that	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets. It's more difficult to measure the behavior, what do you do after you smell gas? But I do know campaigns where they measure understanding and intended behavior if if a customer would smell gas, and they run the campaign and take the same measurements. There is some effort going on out there.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action? And you get extra credit if anyone has actually shown that that translates into people knowing what they're doing. On the public side that means I smell gas, do I know where to call? I'm excavating, do I know what to do about that. First responders, where is that information coming from, what do I do?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets. It's more difficult to measure the behavior, what do you do after you smell gas? But I do know campaigns where they measure understanding and intended behavior if if a customer would smell gas, and they run the campaign and take the same measurements. There is some effort going on out there. MEMBER ROSEKIND: My emphasis is trying
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	The next is do you know the action, walk don't run. The third part, of course, is what happens when the alarm actually goes off. And that we can only test through a scenario, practice, or during actual disaster. I bring this up because my question really is, on the public side, as well as first responder, is there any program or activity that has been demonstrated to actually address knowledge and appropriate action? And you get extra credit if anyone has actually shown that that translates into people knowing what they're doing. On the public side that means I smell gas, do I know where to call? I'm excavating, do I know what to do about that. First responders, where is that	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	those very targeted efforts we've got, I think, four jurisdictions now that have passed ordinances that use their zoning and permitting processes to help people stay safer near pipelines. And a couple other jurisdictions that are moving in that direction. ANNMARIE ROBERTSON: I think with respect to damage prevention it's a little bit easier to measure, because we can measure calls to 811 after a campaign, and in many cases we can measure damages for thousands and locate tickets. It's more difficult to measure the behavior, what do you do after you smell gas? But I do know campaigns where they measure understanding and intended behavior if if a customer would smell gas, and they run the campaign and take the same measurements. There is some effort going on out there.

	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 442		Page 444
1	measuring survey rates and the people got	1	the scene so I witnessed it and I heard the story
2	mailings, and you can count on the fact that after	2	of the truck turning the corner and the heat
3	this hearing I'm going to pull all my colleague	3	cracked the windshield. That tells what the
	board members to find out what they've got in the	4	people were subjected to and they did an amazing
	mail and if they read them or not, right?	5	job. So I'd like to second that, what
6	(LAUGHTER)	6	Mr. Rosekind and the Chairman have said.
7	MEMBER ROSEKIND: So just because we	7	My question is to is 1162. And it's not
8	don't know something's there, after tragedy it's	8	clear to me, maybe it should be addressed to
	easy for all of us to say, we really should have		Mr. Lidiak from API and Ms. Robertson from PHMSA.
	paid attention.	10	But it's not clear to me whether this is
11	We need to focus on the knowledge, and	11	a recommended practice from API or whether or not
12	do they have the action.		it's a requirement that was made a requirement by
13	I think there's a lot of examples with		PHMSA.
14	responses San Francisco Airport, they do this	14	So what is the what is the status of
15	all the time, people really do walk or run. We	15	1162 in the industry?
	can measure that kind of stuff, but that has to be	16	ANNMARIE ROBERTSON: In 2005, PHMSA
17	where the focus is. And I want to raise the	17	incorporated by reference the API 1162 recommended
18	concern that we're just focusing on the mailing,	18	practice, and operators are directed to develop
19	did they get it or not, did they read it, et	19	and implement programs that align with the
20	cetera.	20	baseline and supplemental requirements of their
21	What we really want to know, do they	21	recommendations of 1162.
22	have the right knowledge, do they have the	22	VICE CHAIRMAN HART: So the regulation
	Page 443		Page 445
1	knowledge to take the right action? Whether they	1	elevated it from a regulated practice to a
	knowledge to take the right action? Whether they do it or not is another thing, but we've got to		elevated it from a regulated practice to a requirement, I take it.
2			
2 3	do it or not is another thing, but we've got to	2	requirement, I take it.
2 3	do it or not is another thing, but we've got to get that part I think there's a misnomer about	2 3 4	requirement, I take it. ANNMARIE ROBERTSON: Yes yes
2 3 4 5	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good.	2 3 4 5	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics
2 3 4 5 6	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is,	2 3 4 5	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met
2 3 4 5 6 7	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in	2 3 4 5 6 7	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been
2 3 4 5 6 7	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not	2 3 4 5 6 7	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special
2 3 4 5 6 7 8 9 10	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that	2 3 4 5 6 7 8 9	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much.
2 3 4 5 6 7 8 9 10 11	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms	2 3 4 5 6 7 8 9	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you.
2 3 4 5 6 7 8 9 10 11 12	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want.	2 3 4 5 6 7 8 9 10 11 12	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did
2 3 4 5 6 7 8 9 10 11 12 13	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just	2 3 4 5 6 7 8 9 10 11 12 13	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims
2 3 4 5 6 7 8 9 10 11 12 13	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just wondering if the people got the mailing or not.	2 3 4 5 6 7 8 9 10 11 12 13 14	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims or the survivors, or protecting public or private
2 3 4 5 6 7 8 9 10 11 12 13 14 15	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just wondering if the people got the mailing or not. We want to know that the first	2 3 4 5 6 7 8 9 10 11 12 13 14	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims or the survivors, or protecting public or private property?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just wondering if the people got the mailing or not. We want to know that the first responders had the right information to take the	2 3 4 5 6 7 8 9 10 11 12 13 14	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims or the survivors, or protecting public or private property? DENNIS HAAG: Madam Chair, did you say
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just wondering if the people got the mailing or not. We want to know that the first responders had the right information to take the right action. Thank you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims or the survivors, or protecting public or private property? DENNIS HAAG: Madam Chair, did you say "delay"?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just wondering if the people got the mailing or not. We want to know that the first responders had the right information to take the right action. Thank you. CHAIRMAN HERSMAN: Vice Chairman.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims or the survivors, or protecting public or private property? DENNIS HAAG: Madam Chair, did you say "delay"? CHAIRMAN HERSMAN: Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just wondering if the people got the mailing or not. We want to know that the first responders had the right information to take the right action. Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I would	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims or the survivors, or protecting public or private property? DENNIS HAAG: Madam Chair, did you say "delay"? CHAIRMAN HERSMAN: Yes. DENNIS HAAG: No, there was no delay on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just wondering if the people got the mailing or not. We want to know that the first responders had the right information to take the right action. Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I would like to second Mr. Rosekind, and certainly what	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims or the survivors, or protecting public or private property? DENNIS HAAG: Madam Chair, did you say "delay"? CHAIRMAN HERSMAN: Yes. DENNIS HAAG: No, there was no delay on the part of emergency medical response, or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just wondering if the people got the mailing or not. We want to know that the first responders had the right information to take the right action. Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I would like to second Mr. Rosekind, and certainly what the Chairman has already said about the amazing	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims or the survivors, or protecting public or private property? DENNIS HAAG: Madam Chair, did you say "delay"? CHAIRMAN HERSMAN: Yes. DENNIS HAAG: No, there was no delay on the part of emergency medical response, or conservation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	do it or not is another thing, but we've got to get that part I think there's a misnomer about awareness because we all know it's not good. And the final comment I would make is, this is hard to do with models. I work in transportation safety. Fasten seat belt, do not drink and drive. And prevention is even harder. There are models, though, that people can take from other places to make sure that you're using the most effective mechanisms possible to get the best outcomes that you want. Because we don't want these tragedies, and just wondering if the people got the mailing or not. We want to know that the first responders had the right information to take the right action. Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I would like to second Mr. Rosekind, and certainly what	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	requirement, I take it. ANNMARIE ROBERTSON: Yes yes VICE CHAIRMAN HART: Are there metrics to determine whether this requirement is being met and what kind of follow-up has been ANNMARIE ROBERTSON: We have a special program underway. VICE CHAIRMAN HART: Okay. Thank you very much. CHAIRMAN HERSMAN: Thank you. Chief, I'm going to start with you. Did you have any delay in accessing any of the victims or the survivors, or protecting public or private property? DENNIS HAAG: Madam Chair, did you say "delay"? CHAIRMAN HERSMAN: Yes. DENNIS HAAG: No, there was no delay on the part of emergency medical response, or

1 you to get to the victims or survivors?

	you to get to the victims of survivors?		minutes, you re saying 20 minutes from the first
2	DENNIS HAAG: I'm trying to count I	2	911 call or
3	believe five of the victims were deceased, and we	3	DENNIS HAAG: No, I'm sorry. I thought
4	had one self-transport, two self-transports.	4	you were referring to the residual.
5		5	CHAIRMAN HERSMAN: No, I'm talking about
6	them.	6	the initial fire, and your arrival on the scene.
7	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1	How long did it take you to access inside the
	residences, so we had access to those transports.	1	perimeter? Were your teams watching for an hour?
		1	Or what was going on?
	didn't prevent you from getting to anyone?	10	DENNIS HAAG: The valves were shut off
			about an hour and 20 minutes after.
11			
12	5	12	CHAIRMAN HERSMAN: So your teams arrived
13			on-site.
14	, ,	14	DENNIS HAAG: Yes
	prevented us from getting to some of the	15	8
16	properties. You mean undamaged properties?	16	DENNIS HAAG: Set up our perimeter, did
17	CHAIRMAN HERSMAN: (Nodding head)	17	what we could with what we had, essentially,
18	DENNIS HAAG: And this in this	18	contained that perimeter.
19	scenario, which I guess I'm having a little hard	19	We did have firefighting activity being
20	time understanding, is, the size of the explosion	20	done on structures who copped to exposures and
21	and the ensuing ball of fuel pretty much	21	radiant heat.
22	established its own perimeter.	22	And then it was probably an hour and 20
	Page 447		Page 449
1	And from the heat, we could access only	1	minutes before the main valves were shut down and
2	so close to any point in that perimeter. So that	2	the main fuel source went down, we were able to
3	was essentially our limitations of gaining access	3	advance on the perimeter.
4	there.	4	CHAIRMAN HERSMAN: Okay.
5	CHAIRMAN HERSMAN: And once the gas blow	5	Mr. Jones, can you please pull up
6	was stopped were you able to access inside that	6	Exhibit 4A.
7	perimeter?	7	I want to follow up on Mr. Trainor's
8	DENNIS HAAG: Once the flow was stopped,	8	question to Mr. Rezendez having to do with public
9	yes, we were able to get in there; we were still		awareness. And RP1162 establishes guidance for
	fighting structure fires and, obviously, we were		operators to develop, manage, and evaluate public
	still waiting for the residual pressure to be shut		awareness programs.
	down also.	12	And Mr. Trainer asked you a question
13			about evaluating the effectiveness of your public
	take, once your folks arrived on the scene?	1	awareness programs. And I understand that you
15		1	contract out the evaluation portion of that? And
	20 minutes, I think, for the residual to be shut		there was a little bit of a discussion about the
	down.	1	response rate and that they had mathematical
18		1	models.
	manually, so it there was probably certain	18	Do you remember that?
172		119	
10-			-
20	areas that could have accessed it a little easier	20	AARON REZENDEZ: I do.
21	areas that could have accessed it a little easier if that wasn't impacting the operation.	20 21	AARON REZENDEZ: I do. CHAIRMAN HERSMAN: Did you feel like you
1	areas that could have accessed it a little easier if that wasn't impacting the operation.	20 21	AARON REZENDEZ: I do.

Page 446

3 4 5 6 7	AARON REZENDEZ: I do. You know, again, we're participating in the API-sponsored PAPA survey which is the public awareness program, effectiveness research survey, we participated in in 2007. Now, again, I'm not a statistician, but it's my understanding that that particular survey as executed was designed to get a representative	3 4 5 6 7	So maybe these people who were responding to this postcard self-selected because they may have actually had a problem. And have you ever heard of the one-call system before reading this brochure? And only two people said yes and 14 said no. So I think I I think 20 responses out of over 15,000, to me does not say that you had a
	sample such that you'd be able to scale that to		good hit on your evaluation program.
	that population.	10	I'm not sure if Mr. Weimer or
11	CHAIRMAN HERSMAN: Okay. Mr. Jones, if	11	Ms. Robertson want to comment with respect to what
	you could pull the exhibit up. And this is the		the expectation is for evaluation and
	exhibit for the group responsible for this. The		effectiveness. But I think even the 20 people who
	survival factors for [inaudible]		did respond demonstrate you've got serious
15	Would you go to page 18, please.		problems with people being aware of what's going
16	And right here at the bottom it talks		on around them.
17	about your effectiveness review, Paradigm Alliance conducted a program effectiveness review in	17	AARON REZENDEZ: And you're right, Madam Chairman. I will not disagree that there was a
	June 2010.		real learning opportunity in the responses that we
20	They mailed public awareness brochures		received.
	with business reply and survey postcards to over	21	I think what's important here is what
	15,000 addresses. Eight weeks later, 20 survey		was mentioned a little bit earlier, that one of
			, ,
	Page 451		Page 453
		1	
1	postcards were returned.	1	the things that utilities are encouraged to do is
2	So if you could go to the next page,	2	actually develop materials that are compelling,
2	So if you could go to the next page, please, Mr. Jones.	2	actually develop materials that are compelling, and informative, and that have a tone and a
2 3 4	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the	2 3 4	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed
2 3 4 5	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And	2 3 4 5	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak.
2 3 4 5 6	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are	2 3 4 5 6	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so
2 3 4 5 6 7	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline.	2 3 4 5 6 7	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply
2 3 4 5 6 7 8	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work	2 3 4 5 6 7 8	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual
2 3 4 5 6 7 8 9	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than	2 3 4 5 6 7 8 9	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA
2 3 4 5 6 7 8 9	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes.	2 3 4 5 6 7 8 9 10	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I
2 3 4 5 6 7 8 9 10 11	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes. Have you seen information about pipeline	2 3 4 5 6 7 8 9 10 11	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I mean actual effectiveness of just that individual
2 3 4 5 6 7 8 9 10 11	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes.	2 3 4 5 6 7 8 9 10 11	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I
2 3 4 5 6 7 8 9 10 11 12 13	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes. Have you seen information about pipeline safety within the last two years.	2 3 4 5 6 7 8 9 10 11 12 13	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I mean actual effectiveness of just that individual piece.
2 3 4 5 6 7 8 9 10 11 12 13 14	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes. Have you seen information about pipeline safety within the last two years. And earlier in the document we talked	2 3 4 5 6 7 8 9 10 11 12 13 14	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I mean actual effectiveness of just that individual piece. In getting 20 responses, we have 15,000
2 3 4 5 6 7 8 9 10 11 12 13 14	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes. Have you seen information about pipeline safety within the last two years. And earlier in the document we talked about all the mailings that are done twice a year,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I mean actual effectiveness of just that individual piece. In getting 20 responses, we have 15,000 recipients, was unacceptable to us, and it caused
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes. Have you seen information about pipeline safety within the last two years. And earlier in the document we talked about all the mailings that are done twice a year, through the bills and things like that. Fourteen of them said no, that they had not seen information, and only three had.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I mean actual effectiveness of just that individual piece. In getting 20 responses, we have 15,000 recipients, was unacceptable to us, and it caused us to step back and to really ask the question, you know, what are we doing wrong with respect to notifying and informing and raising awareness?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes. Have you seen information about pipeline safety within the last two years. And earlier in the document we talked about all the mailings that are done twice a year, through the bills and things like that. Fourteen of them said no, that they had not seen information, and only three had. The great news is everyone would call	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I mean actual effectiveness of just that individual piece. In getting 20 responses, we have 15,000 recipients, was unacceptable to us, and it caused us to step back and to really ask the question, you know, what are we doing wrong with respect to notifying and informing and raising awareness? Clearly the language needs to change.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes. Have you seen information about pipeline safety within the last two years. And earlier in the document we talked about all the mailings that are done twice a year, through the bills and things like that. Fourteen of them said no, that they had not seen information, and only three had. The great news is everyone would call 911. And, unfortunately, I think this kind of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I mean actual effectiveness of just that individual piece. In getting 20 responses, we have 15,000 recipients, was unacceptable to us, and it caused us to step back and to really ask the question, you know, what are we doing wrong with respect to notifying and informing and raising awareness? Clearly the language needs to change. And so we will be engaging our corporate
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes. Have you seen information about pipeline safety within the last two years. And earlier in the document we talked about all the mailings that are done twice a year, through the bills and things like that. Fourteen of them said no, that they had not seen information, and only three had. The great news is everyone would call 911. And, unfortunately, I think this kind of shows what we have problems with excavation, have	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I mean actual effectiveness of just that individual piece. In getting 20 responses, we have 15,000 recipients, was unacceptable to us, and it caused us to step back and to really ask the question, you know, what are we doing wrong with respect to notifying and informing and raising awareness? Clearly the language needs to change. And so we will be engaging our corporate communications group, who has particular expertise
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So if you could go to the next page, please, Mr. Jones. And here's a summary of some of the responses that they received on your behalf. And these were all mailed to people who actually are located near a pipeline. And so, do you or someone you know work or live near a pipeline? More people said no than said yes. Have you seen information about pipeline safety within the last two years. And earlier in the document we talked about all the mailings that are done twice a year, through the bills and things like that. Fourteen of them said no, that they had not seen information, and only three had. The great news is everyone would call 911. And, unfortunately, I think this kind of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	actually develop materials that are compelling, and informative, and that have a tone and a language for which the audience speaks, as opposed to utilities speak. And in those responses, and just so we're clear as to what we did, the business reply card that was used there was to test the actual content, not affecting the survey such as the PAPA survey, but it affected the survey, if you may, I mean actual effectiveness of just that individual piece. In getting 20 responses, we have 15,000 recipients, was unacceptable to us, and it caused us to step back and to really ask the question, you know, what are we doing wrong with respect to notifying and informing and raising awareness? Clearly the language needs to change. And so we will be engaging our corporate

Page 450

March 2, 2011 Page 452

			March 2, 2011
	Page 454		Page 456
1	And I think, too, when you look at the	1	choose not to give to first responders? Either in
2	business reply card, and this is kind of an		your own book or in [inaudible]?
	industry technique is, what are you really	3	AARON REZENDEZ: I'm sorry, could you
	offering in return?	4	repeat the question.
5	One of the things I think we really	5	MR. CLANON: Yes. Is there information
6	missed in that particular piece was, we didn't	6	about a transmission line, for example, through a
7	give the customer some benefit of letting us know	7	neighborhood that PG&E was not to give to first
	that information. We said their opinion was	8	responders for any reason?
	important, but maybe they had additional	9	AARON REZENDEZ: Not that I'm aware of.
	questions, maybe they wanted to get additional	10	
	information.	11	MR. CLANON: And, similarly, for the
12	So we're looking at opportunities to	12	general public, is there information about
	improve, if you may, the techniques that we use to	13	
	be able to kind of entice, and I was mentioning a	14	
	little bit earlier, or prompt that kind of	15	AARON REZENDEZ: Not that I'm aware of.
	response.	16	MR. CLANON: The reason I ask that, if
17	CHAIRMAN HERSMAN: Thank you. We'll		you want to stand on that answer is, that,
	turn back to the panel. If you have some		particularly since the San Bruno accident, people
19	additional questions.		in Northern California are concerned not
20	MR. TRAINOR: I have one question for	20	
	Mr. Rezendez.		it might be an old one or whether it is similar to
22	During the session where the parties		the one that ruptured.
	During the session where the parties	22	the one that reptared.
	Page 455		Page 457
			Fage 457
1	were posing questions to the panel, you brought up	1	So, PG&E would feel comfortable
	-		
2	were posing questions to the panel, you brought up		So, PG&E would feel comfortable
2	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the	2	So, PG&E would feel comfortable providing local people with specific information
2 3 4	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area.	2 3 4	So, PG&E would feel comfortable providing local people with specific information about the pipelines?
2 3 4	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on	2 3 4 5	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have
2 3 4 5	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet?	2 3 4 5 6	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were
2 3 4 5 6	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San	2 3 4 5 6	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to
2 3 4 5 6 7 8	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident.	2 3 4 5 6 7 8	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information.
2 3 4 5 6 7 8	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable	2 3 4 5 6 7 8 9	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number,
2 3 4 5 6 7 8 9	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or	2 3 4 5 6 7 8 9	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual
2 3 4 5 6 7 8 9 10	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident?	2 3 4 5 6 7 8 9 10 11	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions,
2 3 4 5 6 7 8 9 10 11	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline	2 3 4 5 6 7 8 9 10 11	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby
2 3 4 5 6 7 8 9 10 11 12	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline Mapping System.	2 3 4 5 6 7 8 9 10 11 12 13	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby
2 3 4 5 6 7 8 9 10 11 12 13	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline Mapping System. MR. TRAINOR: Thank you.	2 3 4 5 6 7 8 9 10 11 12 13 14	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby experts, if you may, with that particular
2 3 4 5 6 7 8 9 10 11 12 13 14	 were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline Mapping System. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the 	2 3 4 5 6 7 8 9 10 11 12 13 14	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby experts, if you may, with that particular specialty and the ability of being able to get those answers, will send in writing to those
2 3 4 5 6 7 8 9 10 11 12 13 14 15	were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline Mapping System. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the Technical Panel have no more questions.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby experts, if you may, with that particular specialty and the ability of being able to get those answers, will send in writing to those
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline Mapping System. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the Technical Panel have no more questions. CHAIRMAN HERSMAN: Thank you, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby experts, if you may, with that particular specialty and the ability of being able to get those answers, will send in writing to those customers, those various responses.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<pre>were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline Mapping System. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the Technical Panel have no more questions. CHAIRMAN HERSMAN: Thank you, Mr. Chhatre.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby experts, if you may, with that particular specialty and the ability of being able to get those answers, will send in writing to those customers, those various responses. MR. CLANON: Thank you. That's all I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<pre>were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline Mapping System. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the Technical Panel have no more questions. CHAIRMAN HERSMAN: Thank you, Mr. Chhatre. How about the parties? Are there other</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby experts, if you may, with that particular specialty and the ability of being able to get those answers, will send in writing to those customers, those various responses. MR. CLANON: Thank you. That's all I had.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<pre>were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline Mapping System. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the Technical Panel have no more questions. CHAIRMAN HERSMAN: Thank you, Mr. Chhatre. How about the parties? Are there other parties who have additional questions? Okay.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby experts, if you may, with that particular specialty and the ability of being able to get those answers, will send in writing to those customers, those various responses. MR. CLANON: Thank you. That's all I had. CHAIRMAN HERSMAN: Mr. Wiese.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<pre>were posing questions to the panel, you brought up Exhibit 4Y which was a Google map showing the location of pipelines in the San Bruno area. When was that diagram, or map, placed on your website or on the Internet? AARON REZENDEZ: Shortly after the San Bruno incident. MR. TRAINOR: What type of comparable information was available through the Internet or other public sources prior to the accident? AARON REZENDEZ: The National Pipeline Mapping System. MR. TRAINOR: Thank you. MR. CHHATRE: Madam Chairman, the Technical Panel have no more questions. CHAIRMAN HERSMAN: Thank you, Mr. Chhatre. How about the parties? Are there other parties who have additional questions? Okay. Let's do CPUC first.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So, PG&E would feel comfortable providing local people with specific information about the pipelines? AARON REZENDEZ: Yeah. In fact, we have an 888 number that was set up, because we were receiving a lot of inquiries. Customers wanted to know, and we wanted to provide information. And so, we set up an 888 number, received thousands of calls on that individual line. And for those more complicated questions, maybe kind of the ones that you're inferring, those actually go through a process whereby experts, if you may, with that particular specialty and the ability of being able to get those answers, will send in writing to those customers, those various responses. MR. CLANON: Thank you. That's all I had. CHAIRMAN HERSMAN: Mr. Wiese. MR. WIESE: Thank you very much.

	RE Gas Transmission Expense - DAT 2		March 2, 2011
	Page 458		Page 460
1	regulations require in regard to liaison,	1	and can't quite figure out how to get in there, or
2	emergency responders, emergency response plans,	2	they get to the first page where you have to have
3	and maybe a recent advisory on that subject.	3	a password, and they can't figure out how to get
4	ANNMARIE ROBERTSON: Yeah, our	4	past that.
5	regulations have long required pipeline operators	5	But it's a wonderful system once you
6	to liaison with emergency responders, not only in	6	figure it out. And after the San Bruno tragedy,
7	our public awareness requirements but in 192 at	7	the NPMS got so many hits that it was overwhelmed.
8	615 has to do with the emergency response plans.	8	Our website went down, too, because there were so
9	They have responsibility to reach out to the first	9	many people looking for that information.
10	responders, to explain to them the pipeline is in	10	MR. WIESE: Well, thank you. We think
11	the area, that the characteristics of release, how	11	it's a crucial tool, too. What I was trying to
12	to respond, how to get more information, contact	12	get to is there are security considerations so the
13	information.	13	compromise that was reached after three years of
14	Recently, I believe it was in November	14	negotiation with Homeland Security and everyone
15	of 2010, we issued an advisory bulletin reminding	15	was to get it at a county level and lower, and not
16	operators of the responsibility, of the liaison	16	to allow people to zoom in and out, that it could
17	responsibilities for emergency responders.	17	be used for other purposes. I know there are a
18	MR. WIESE: Thank you very much.		million opinions on that. I just wanted to get it
19	Chief, I just want to make a forgive	19	on the record.
20	, I ,	20	And, lastly, for Ms. Robertson, during
21	8		your inspection of public awareness, obviously
22	Our administrator following that	22	effectiveness is what everyone was after. It was
	Page 459		Page 461
1	directed us to reinforce the message with the	r l	an original recommendation from the NTSB, as you
	industry that they have a positive requirement to		noted, from Lively and, I think, also an accident
		1 2	
			-
3	maintain liaison with emergency responders. I	3	in well, in Carmichael, but in Kansas as well.
3 4	maintain liaison with emergency responders. I think we all believe that's crucial.	3 4	in well, in Carmichael, but in Kansas as well. And they asked us, and we built that
3 4 5	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I	3 4	in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated.
3 4 5 6	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk	3 4 5 6	in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company
3 4 5 6 7	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who	3 4 5 6	in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated.
3 4 5 6 7 8	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk	3 4 5 6 7 8	in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning?
3 4 5 6 7 8	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline	3 4 5 6 7 8 9	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the
3 4 5 6 7 8 9 10	 maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. 	3 4 5 6 7 8 9 10	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to
3 4 5 6 7 8 9 10 11	 maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a 	3 4 5 6 7 8 9 10 11	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with
3 4 5 6 7 8 9 10 11 12	 maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of 	3 4 5 6 7 8 9 10 11 12	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is,
3 4 5 6 7 8 9 10 11 12 13	 maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of accuracy, who can access what, I don't know I mean, Carl, you were as involved in that as anyone. Would you care to address that? 	3 4 5 6 7 8 9 10 11 12 13 14	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is, number one, what does their program say? Is it in line with the 1162? Number 2, did they implement it in accordance with what they've written, what
3 4 5 6 7 8 9 10 11 12 13 14 15	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of accuracy, who can access what, I don't know I mean, Carl, you were as involved in that as anyone. Would you care to address that? CARL WEIMER: Certainly. The	3 4 5 6 7 8 9 10 11 12 13 14	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is, number one, what does their program say? Is it in line with the 1162? Number 2, did they implement it in accordance with what they've written, what they've said they're going to do? Have they taken
3 4 5 6 7 8 9 10 11 12 13 14 15	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of accuracy, who can access what, I don't know I mean, Carl, you were as involved in that as anyone. Would you care to address that? CARL WEIMER: Certainly. The availability of NPMS system is one of the few ways	3 4 5 6 7 8 9 10 11 12 13 14 15 16	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is, number one, what does their program say? Is it in line with the 1162? Number 2, did they implement it in accordance with what they've written, what they've said they're going to do? Have they taken the measurements that are required? How do they
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of accuracy, who can access what, I don't know I mean, Carl, you were as involved in that as anyone. Would you care to address that? CARL WEIMER: Certainly. The availability of NPMS system is one of the few ways that people can really find whether there is a	3 4 5 6 7 8 9 10 11 12 13 14 15 16	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is, number one, what does their program say? Is it in line with the 1162? Number 2, did they implement it in accordance with what they've written, what they've said they're going to do? Have they taken the measurements that are required? How do they go about each of the different audiences and each
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of accuracy, who can access what, I don't know I mean, Carl, you were as involved in that as anyone. Would you care to address that? CARL WEIMER: Certainly. The availability of NPMS system is one of the few ways that people can really find whether there is a pipeline in their neighborhood or not. We just	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is, number one, what does their program say? Is it in line with the 1162? Number 2, did they implement it in accordance with what they've written, what they've said they're going to do? Have they taken the measurements that are required? How do they go about each of the different audiences and each of the different messages? How did they measure,
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of accuracy, who can access what, I don't know I mean, Carl, you were as involved in that as anyone. Would you care to address that? CARL WEIMER: Certainly. The availability of NPMS system is one of the few ways that people can really find whether there is a pipeline in their neighborhood or not. We just need to get the word out more that that is	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is, number one, what does their program say? Is it in line with the 1162? Number 2, did they implement it in accordance with what they've written, what they've said they're going to do? Have they taken the measurements that are required? How do they go about each of the different audiences and each of the different messages? How did they measure, what was their methodology, and what did they
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of accuracy, who can access what, I don't know I mean, Carl, you were as involved in that as anyone. Would you care to address that? CARL WEIMER: Certainly. The availability of NPMS system is one of the few ways that people can really find whether there is a pipeline in their neighborhood or not. We just need to get the word out more that that is available. There may be some user-friendly issues	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is, number one, what does their program say? Is it in line with the 1162? Number 2, did they implement it in accordance with what they've written, what they've said they're going to do? Have they taken the measurements that are required? How do they go about each of the different audiences and each of the different messages? How did they measure, what was their methodology, and what did they learn from it? You know, you can have the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of accuracy, who can access what, I don't know I mean, Carl, you were as involved in that as anyone. Would you care to address that? CARL WEIMER: Certainly. The availability of NPMS system is one of the few ways that people can really find whether there is a pipeline in their neighborhood or not. We just need to get the word out more that that is available. There may be some user-friendly issues with that, still, because I I get calls all the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is, number one, what does their program say? Is it in line with the 1162? Number 2, did they implement it in accordance with what they've written, what they've said they're going to do? Have they taken the measurements that are required? How do they go about each of the different audiences and each of the different messages? How did they measure, what was their methodology, and what did they learn from it? You know, you can have the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	maintain liaison with emergency responders. I think we all believe that's crucial. Just a real quick question, because I think it needs to be in the dialogue as we talk about maps. I don't know if there's anyone who wants to comment about the National Pipeline Mapping System. There was a compromise reached after a number of years of talking about what level of accuracy, who can access what, I don't know I mean, Carl, you were as involved in that as anyone. Would you care to address that? CARL WEIMER: Certainly. The availability of NPMS system is one of the few ways that people can really find whether there is a pipeline in their neighborhood or not. We just need to get the word out more that that is available. There may be some user-friendly issues	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 in well, in Carmichael, but in Kansas as well. And they asked us, and we built that into that standard which is now appropriated. But how do we look to see if a company is actually learning? ANNMARIE ROBERTSON: That's what the inspection process is all about. What we want to find out when we go out to the and meet with these operators and conduct our inspections is, number one, what does their program say? Is it in line with the 1162? Number 2, did they implement it in accordance with what they've written, what they've said they're going to do? Have they taken the measurements that are required? How do they go about each of the different audiences and each of the different messages? How did they measure, what was their methodology, and what did they learn from it? You know, you can have the

	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 462		Page 464
1	are you planning to do to make changes to your	1	the 20 responses we got as a part of that business
1	program?	1	response card.
3	Public awareness is a continual	3	MR. JOHNSON: Thank you.
4	improvement-type regulation. There's a 12-step	4	CHAIRMAN HERSMAN: Ms. [inaudible].
	process within the regulation that outlines out to	5	CONNIE JACKS: Yes, I just have a
	operators what they should do to improve their	6	follow-up question regarding the questions a
	programs.		moment ago from PHMSA, having to do with the
8	And as we continue to do these		National Pipeline Mapping System, and I'll ask
	inspections, we'll learn what's working and what's		this this question to Mr. Rezendez and
	not working with respect to the regulation, and		Ms. Robertson.
	the standard, and we can make changes accordingly.	11	Given that the scale of that map is
12	MR. WIESE: Thank you. Just		and the security considerations in a previous
	rhetorically exiting, I'll say if I had a response	1	discussion that was referenced earlier suggested
	rate, as you did, and PG&E and Mr. Rezendez, I'd		that the and they scaled that down and thought
1	be thinking about whether that tool was effective,		it should be a fairly high level, I'm told that it
1	you know, or maybe there's another way of	1	is a 1 to 24,000, what tools are available to a
1	implementing that tool to see whether that's		member of the public who might wish to drill down,
1	effective.		if you will, a little bit further, somebody who's
19	But clearly that sort of response rate		actually very anxious to get more information?
	is not helping.	20	Where would they go? Either within PG&E
21	So thank you.		or through Ms. Robertson, where might they go, in
22	CHAIRMAN HERSMAN: Do we have other		general?
		22	Benefar.
	Page 463		Page 465
1	questions from PG&E?		
		1	ANNMARIE ROBERTSON: With respect to
2	MR. JOHNSON: Yes.	_	ANNMARIE ROBERTSON: With respect to specific location information about pipelines, the
2	1	2	specific location information about pipelines, the
3	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify	2 3	specific location information about pipelines, the NPMS is the source guide, is the source. We have
3	MR. JOHNSON: Yes.	2 3 4	specific location information about pipelines, the
3 4 5	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was.	2 3 4 5	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline
3 4 5 6	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline	2 3 4 5 6	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website,
3 4 5 6 7	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various	2 3 4 5 6 7	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about
3 4 5 6 7 8	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline	2 3 4 5 6 7	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to
3 4 5 6 7 8 9	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public,	2 3 4 5 6 7 8 9	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about
3 4 5 6 7 8 9	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials.	2 3 4 5 6 7 8 9 10	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of
3 4 5 6 7 8 9 10 11	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the	2 3 4 5 6 7 8 9 10	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out.
3 4 5 6 7 8 9 10 11	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about?	2 3 4 5 6 7 8 9 10 11 12	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more
3 4 5 6 7 8 9 10 11 12 13	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about? AARON REZENDEZ: It was to assess the	2 3 4 5 6 7 8 9 10 11 12 13	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more definitive information about the location of the
3 4 5 6 7 8 9 10 11 12 13 14	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about? AARON REZENDEZ: It was to assess the effectiveness of that individual piece. Was the	2 3 4 5 6 7 8 9 10 11 12 13 14	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more definitive information about the location of the pipelines, there is a lot of information about the
3 4 5 6 7 8 9 10 11 12 13 14 15	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about? AARON REZENDEZ: It was to assess the effectiveness of that individual piece. Was the language, the tone, the messaging, being	2 3 4 5 6 7 8 9 10 11 12 13 14	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more definitive information about the location of the pipelines, there is a lot of information about the Pipeline Safety Program available on our website.
3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about? AARON REZENDEZ: It was to assess the effectiveness of that individual piece. Was the language, the tone, the messaging, being understood by the individuals who physically were	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more definitive information about the location of the pipelines, there is a lot of information about the Pipeline Safety Program available on our website. We also do a lot of outreach. Our CATS
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about? AARON REZENDEZ: It was to assess the effectiveness of that individual piece. Was the language, the tone, the messaging, being understood by the individuals who physically were receiving that material?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more definitive information about the location of the pipelines, there is a lot of information about the Pipeline Safety Program available on our website. We also do a lot of outreach. Our CATS program, certainly, is key to getting out to the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about? AARON REZENDEZ: It was to assess the effectiveness of that individual piece. Was the language, the tone, the messaging, being understood by the individuals who physically were receiving that material? MR. JOHNSON: And that is the survey,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more definitive information about the location of the pipelines, there is a lot of information about the Pipeline Safety Program available on our website. We also do a lot of outreach. Our CATS program, certainly, is key to getting out to the public, and another of the another
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about? AARON REZENDEZ: It was to assess the effectiveness of that individual piece. Was the language, the tone, the messaging, being understood by the individuals who physically were receiving that material? MR. JOHNSON: And that is the survey, the 2010 tear-off response was what you were	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more definitive information about the location of the pipelines, there is a lot of information about the Pipeline Safety Program available on our website. We also do a lot of outreach. Our CATS program, certainly, is key to getting out to the public, and another of the another opportunities any other opportunities that we
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about? AARON REZENDEZ: It was to assess the effectiveness of that individual piece. Was the language, the tone, the messaging, being understood by the individuals who physically were receiving that material? MR. JOHNSON: And that is the survey, the 2010 tear-off response was what you were responding to in terms of the number of responses	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more definitive information about the location of the pipelines, there is a lot of information about the Pipeline Safety Program available on our website. We also do a lot of outreach. Our CATS program, certainly, is key to getting out to the public, and another of the another opportunities any other opportunities that we have to reach out to the public we try to take
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. JOHNSON: Yes. Mr. Rezendez, could you please clarify what the 2007 PAPA survey was. AARON REZENDEZ: The 2007 PAPA Survey was an opportunity for us to gain a baseline understanding and awareness level for the various populations, be it the effected public, excavators, as well as emergency response professionals, and public officials. MR. JOHNSON: Could you clarify what the 2010 tear-off mailing was all about? AARON REZENDEZ: It was to assess the effectiveness of that individual piece. Was the language, the tone, the messaging, being understood by the individuals who physically were receiving that material? MR. JOHNSON: And that is the survey, the 2010 tear-off response was what you were	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	specific location information about pipelines, the NPMS is the source guide, is the source. We have on our Safe [inaudible] Communications website, there's a lot of communication about the pipeline safety program, about the regulations, about specific operator pages, what the mileage to enforcement actions. We have a wealth of information about damage prevention, public awareness of the type of program that just came out. So, although there may not be more definitive information about the location of the pipelines, there is a lot of information about the Pipeline Safety Program available on our website. We also do a lot of outreach. Our CATS program, certainly, is key to getting out to the public, and another of the another opportunities any other opportunities that we

	Page 466		Page 468
1	within My Account function, I believe, is a much	1	Police and Fire, regarding any information that
	closer view, and gives some two-mile radius.		would help facilitate coordination of a response?
3	Also PG&E is participating in a new	3	DENNIS HAAG: Well, my understanding
	program that was developed by the Pipeline	4	am I on thank you. No?
	Association for Public Awareness. It's an online	5	CHAIRMAN HERSMAN: Sometimes you have to
6	module that allows people to identify pipes near	6	get pretty close to the mike.
7	them.	7	DENNIS HAAG: Am I on?
8	I think what's really we're trying to	8	(LAUGHTER)
9	take advantage of technology, so it will also have	9	DENNIS HAAG: Yeah, my understanding is,
10	kind of an iPhone or a Google-based phone	10	we know that $PG\&E$ uses units in the command system
11		1	and the Fire Service has used the command system
	through your browser and be able to find major		for a long time.
	pipelines that are located in the area, it will	13	And my hope is we would go into the next
	tell you the direction, the distance, it will tell	14	phase, and our program is to look at those
	you what product is inside, the various hazards		response plans and merge our plans between the two
	associated with that, response needs, if there's a		agencies.
	leak, and contact information for the operator.	17	So there's a point of contact that, you
18 19	So we are looking at additional opportunities to be able to meet that need.	18 19	know, in an event like this we can make a one-step call, make that contact, and have somebody who can
20	CONNIE JACKS: Thank you.		
20	CHAIRMAN HERSMAN: Member Weener.		process of the emergency response.
22	MEMBER WEENER: Just a comment. I just	22	MEMBER ROSEKIND: So just to be clear,
	Page 467		Page 469
1	Page 467 pulled up the National Pipeline Mapping System,	1	Page 469 was that point of before September 9th was that
		1	-
	pulled up the National Pipeline Mapping System,	2	was that point of before September 9th was that
2 3	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work.	2 3	was that point of before September 9th was that point of contact clear, and had those lines of
2 3 4	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just	2 3 4 5	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do
2 3 4 5	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it.	2 3 4 5 6	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E
2 3 4 5 6 7	 pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion 	2 3 4 5 6 7	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons
2 3 4 5 6 7 8	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you	2 3 4 5 6 7 8	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was
2 3 4 5 6 7 8 9	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to	2 3 4 5 6 7 8 9	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my
2 3 4 5 6 7 8 9 10	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline	2 3 4 5 6 7 8 9 10	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal.
2 3 4 5 6 7 8 9 10 11	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood.	2 3 4 5 6 7 8 9 10 11	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you.
2 3 4 5 6 7 8 9 10 11 12	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER)	2 3 4 5 6 7 8 9 10 11 12	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman.
2 3 4 5 6 7 8 9 10 11 12 13	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER) MR. WIESE: We'd like to commit to fix	2 3 4 5 6 7 8 9 10 11 12 13	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I
2 3 4 5 6 7 8 9 10 11 12 13 14	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER) MR. WIESE: We'd like to commit to fix that page.	2 3 4 5 6 7 8 9 10 11 12 13 14	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I already spoke to the amazing job that the first
2 3 4 5 6 7 8 9 10 11 12 13 14 15	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER) MR. WIESE: We'd like to commit to fix that page. CHAIRMAN HERSMAN: Member Rosekind.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I already spoke to the amazing job that the first responders did as first responders, but I would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER) MR. WIESE: We'd like to commit to fix that page. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: Operator error,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I already spoke to the amazing job that the first responders did as first responders, but I would also like to take this opportunity to thank the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER) MR. WIESE: We'd like to commit to fix that page. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: Operator error, obviously.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I already spoke to the amazing job that the first responders did as first responders, but I would also like to take this opportunity to thank the City of San Bruno and all the agencies, San Bruno
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER) MR. WIESE: We'd like to commit to fix that page. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: Operator error, obviously. (LAUGHTER)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I already spoke to the amazing job that the first responders did as first responders, but I would also like to take this opportunity to thank the City of San Bruno and all the agencies, San Bruno Fire and Police and the others for facilitating
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER) MR. WIESE: We'd like to commit to fix that page. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: Operator error, obviously.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I already spoke to the amazing job that the first responders did as first responders, but I would also like to take this opportunity to thank the City of San Bruno and all the agencies, San Bruno Fire and Police and the others for facilitating
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER) MR. WIESE: We'd like to commit to fix that page. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: Operator error, obviously. (LAUGHTER) MEMBER ROSEKIND: Just a quick question.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I already spoke to the amazing job that the first responders did as first responders, but I would also like to take this opportunity to thank the City of San Bruno and all the agencies, San Bruno Fire and Police and the others for facilitating the investigation as well as they did, for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	pulled up the National Pipeline Mapping System, and the Public Map Viewer doesn't work. CHAIRMAN HERSMAN: Actually, I just pulled it up a few minutes ago and it did work, so don't have a heart attack. I actually was able to use it. I know that there is some confusion some places that look confusing, almost like you need a password for it. There's a public way to get in. So I'll show you how to find the pipeline in your neighborhood. (LAUGHTER) MR. WIESE: We'd like to commit to fix that page. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: Operator error, obviously. (LAUGHTER) MEMBER ROSEKIND: Just a quick question. I'm curious. In terms of responder knowledge,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	was that point of before September 9th was that point of contact clear, and had those lines of communication for coordinated response been worked out? DENNIS HAAG: No, at the time. But I do want to say that on September 9th, the PG&E response was great. We had we had liaisons established and it worked out. I think there was an opportunity to enhance that, and that's my goal. MEMBER ROSEKIND: Thank you. CHAIRMAN HERSMAN: Vice Chairman. VICE CHAIRMAN HART: Thank you. I already spoke to the amazing job that the first responders did as first responders, but I would also like to take this opportunity to thank the City of San Bruno and all the agencies, San Bruno Fire and Police and the others for facilitating the investigation as well as they did, for preserving the site, for accompanying us wherever
March	2,	201	1
-------	----	-----	---
	-,		

PG	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 470		Page 472
2 3 4 5	place to meet, and all of the things that you did to help this investigation go as well as it did. I want to congratulate you for a job well done. CHAIRMAN HERSMAN: You know, yesterday we had an opportunity to discuss some of the SCADA activities and the 911 calls and stuff like that.	2 : 3 4 : 5 :	and then after 3-digit dialing was instituted as far as public awareness for one-call? ANNMARIE ROBERTSON: 911. Yes. The Common Ground Alliance does a survey, I believe it's every two years, to get an understanding of the awareness level for 811. And although it's
7	I just wanted to ask Mr. Rezendez if	7 :	not like where we would like it to be, we are
8	there's any post-September 9th collaboration	8 :	seeing constant improvement in, you know, the
9	between you, and kind of what goes on in the SCADA	1	awareness and responsibility of calling 811, and
10	center.	10	the availability of the number.
11	If they're relying on someone from PG&E	11	CHAIRMAN HERSMAN: So what we know,
	go on, and kind of give them feedback on what		though, is before we had 3-digit dialing we had
	happens, and yesterday they were told they don't		more excavation events than we did after we did
	call 911 if they see something, an anomaly at the	1	3-digit dialing, 811 and community awareness
	SCADA center.		campaigns.
16	Has there been any changes to that post	16	So what I'm trying to understand is, we
	accident?		had a success in that area, where we were actually
18	AARON REZENDEZ: That is actually an	1	able to change behavior and get information out, and people actually acted on it. And so those
	active conversation, a very timely question, indeed. Thank you.	1	excavation damages accidents are going down.
20	Yeah, we're actually yeah, one of the	20	What created the catalyst for the
	things that I think kind of typifies an incident		success in seeing that be effective, and that
	8		
	Dec. 474		Daria 172
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 471 that occurs, whether it be on the distribution side or a much larger scale like what happened in San Bruno, is that oftentimes because of awareness among the public, that when something occurs, their first call is usually 911. So it's it's typically the situation where, they're the first responder of all the first responders. Going forward, yes, they are actually they're looking at our policies and our procedures at exactly that very issue to, you know, assess when is the appropriate time to make that phone call, who should be making that phone call. Because, obviously, we have first responders out there who go and make an initial assessment, whereby the need of having the fire or the police department present there in order to secure the area is essential. So we are absolutely looking at that.	2 1 3 1 4 5 1 6 1 7 1 8 1 9 10 1 11 1 12 1 13 1 14 0 15 1 16 0 17 1 18 1 9 1	Page 473 communication be effective? And could we translate any of those lessons learned to the public general public awareness side? ANNMARIE ROBERTSON: The 811 campaign is largely a grassroots campaign. It's done through the the materials of it are available through the Common Ground Alliance but they're distributed to grassroots level through various organizations. So it's about getting the right message to the right people from the right source. I think Carl talked a little bit about that. As far as overall awareness, there are many other messages besides damage prevention and calling 811 that we need to convey, and that can be a bit of a challenge when you're trying to convey so many different messages to get to the stakeholder audience. CHAIRMAN HERSMAN: Okay. Great. Mr. Rezendez, I want to ask you, if after the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that occurs, whether it be on the distribution side or a much larger scale like what happened in San Bruno, is that oftentimes because of awareness among the public, that when something occurs, their first call is usually 911. So it's it's typically the situation where, they're the first responder of all the first responders. Going forward, yes, they are actually they're looking at our policies and our procedures at exactly that very issue to, you know, assess when is the appropriate time to make that phone call, who should be making that phone call. Because, obviously, we have first responders out there who go and make an initial assessment, whereby the need of having the fire or the police department present there in order to secure the area is essential. So we are absolutely looking at that. CHAIRMAN HERSMAN: Okay. Thank you.	2 1 3 1 4 5 7 6 1 7 1 8 1 9 10 1 11 1 12 13 1 14 0 15 1 16 0 17 1 18 19 7 20 2	communication be effective? And could we translate any of those lessons learned to the public general public awareness side? ANNMARIE ROBERTSON: The 811 campaign is largely a grassroots campaign. It's done through the the materials of it are available through the Common Ground Alliance but they're distributed to grassroots level through various organizations. So it's about getting the right message to the right people from the right source. I think Carl talked a little bit about that. As far as overall awareness, there are many other messages besides damage prevention and calling 811 that we need to convey, and that can be a bit of a challenge when you're trying to convey so many different messages to get to the stakeholder audience. CHAIRMAN HERSMAN: Okay. Great. Mr. Rezendez, I want to ask you, if after the accident and I don't know how much, you know,
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that occurs, whether it be on the distribution side or a much larger scale like what happened in San Bruno, is that oftentimes because of awareness among the public, that when something occurs, their first call is usually 911. So it's it's typically the situation where, they're the first responder of all the first responders. Going forward, yes, they are actually they're looking at our policies and our procedures at exactly that very issue to, you know, assess when is the appropriate time to make that phone call, who should be making that phone call. Because, obviously, we have first responders out there who go and make an initial assessment, whereby the need of having the fire or the police department present there in order to secure the area is essential. So we are absolutely looking at that.	2 1 3 1 4 5 7 6 1 7 1 8 7 9 10 1 11 1 12 1 13 7 14 0 15 1 16 0 17 8 18 19 7 20 7 21 7	communication be effective? And could we translate any of those lessons learned to the public general public awareness side? ANNMARIE ROBERTSON: The 811 campaign is largely a grassroots campaign. It's done through the the materials of it are available through the Common Ground Alliance but they're distributed to grassroots level through various organizations. So it's about getting the right message to the right people from the right source. I think Carl talked a little bit about that. As far as overall awareness, there are many other messages besides damage prevention and calling 811 that we need to convey, and that can be a bit of a challenge when you're trying to convey so many different messages to get to the stakeholder audience. CHAIRMAN HERSMAN: Okay. Great. Mr. Rezendez, I want to ask you, if after the

	CE Cas ITansmission I penne - DAT 2		
	Page 474		Page 476
1	personal contact with each and every fire chief in	1	Dominion. And I didn't know if it was Dominion or
	your service area?		another name when I went to look.
3	AARON REZENDEZ: I think	3	And so I did have an opportunity to go
4	CHAIRMAN HERSMAN: Is that realistic?		look at the map and take a look at it, but I have
5	AARON REZENDEZ: Well, I think at a		to tell you, your average consumer isn't going to
	local level where, say our maintenance and		go do that. They are not going to know in
	construction operation, it would be the other		particular that it runs through.
	first responder on scene, that those are two-way	8	But, Member Sumwalt, I do think that if
	communication channels that should be maintained	_	you have a right-of-way running through your
	and encouraged at the local level. Absolutely.		
	•		property, you are going to have that disclosure
11	CHAIRMAN HERSMAN: Okay. And I did want		when you go to settle, when you are purchasing
	to follow up. Just I did use the mapping tool.		property. But that doesn't mean that I will. I
	It's on PHMSA's website. And I think this is one		live in that neighborhood, and I don't have,
	of the challenges because I think for people, if		necessarily, the pipeline located on my
	they don't know that they need to look for	1	right-of-way, but it's near me. And I wouldn't
	something, or that they should look for something,		necessarily know that, and so, I think it's a real
	or how to look for something, that they're not	17	challenge.
	going to look for it.	18	If I got a mailing from a company called
19	And so these are these pipelines are	1	
	buried, and I think I'm a little bit unique and	1	were, I would probably throw it in the trash
	I'm probably hypersensitive to these issues, more		before I even opened it because I would think it
22	than your average consumer. But there is a	22	was junk mail.
	Page 475		Page 477
	Page 475		Page 477
	transmission pipeline that runs through my	1	I do open my gas bill because I know
2	transmission pipeline that runs through my neighborhood at the top of our street in our	2	I do open my gas bill because I know they should be mailing something to me, but I know
2	transmission pipeline that runs through my neighborhood at the top of our street in our community.	2 3	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was
2 3 4	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I	2 3 4	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but
2 3 4 5	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles	2 3 4 5	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they
2 3 4 5 6	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them.	2 3 4 5	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand?
2 3 4 5 6 7	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in	2 3 4 5 6 7	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in
2 3 4 5 6 7 8	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've	2 3 4 5 6 7 8	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our
2 3 4 5 6 7 8	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular.	2 3 4 5 6 7 8 9	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your
2 3 4 5 6 7 8 9 10	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those	2 3 4 5 6 7 8 9 10	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing
2 3 4 5 6 7 8 9 10 11	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking	2 3 4 5 6 7 8 9 10 11	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds,
2 3 4 5 6 7 8 9 10 11 12	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are	2 3 4 5 6 7 8 9 10 11	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise.
2 3 4 5 6 7 8 9 10 11 12 13	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's	2 3 4 5 6 7 8 9 10 11 12 13	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific
2 3 4 5 6 7 8 9 10 11 12 13 14	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's been a lot of acquisitions and mergers over the	2 3 4 5 6 7 8 9 10 11 12 13 14	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific comments on or questions for the record, and
2 3 4 5 6 7 8 9 10 11 12 13 14	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's	2 3 4 5 6 7 8 9 10 11 12 13 14	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific
2 3 4 5 6 7 8 9 10 11 12 13 14 15	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's been a lot of acquisitions and mergers over the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific comments on or questions for the record, and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's been a lot of acquisitions and mergers over the years, so when I went to PHMSA's website just now,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific comments on or questions for the record, and particularly for Mr. Rezendez, but given that our
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's been a lot of acquisitions and mergers over the years, so when I went to PHMSA's website just now, I didn't even know the name of who that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific comments on or questions for the record, and particularly for Mr. Rezendez, but given that our time is short we want to keep on schedule, we'll
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's been a lot of acquisitions and mergers over the years, so when I went to PHMSA's website just now, I didn't even know the name of who that transmission line operator is, because it's not	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific comments on or questions for the record, and particularly for Mr. Rezendez, but given that our time is short we want to keep on schedule, we'll potentially file those in paper for you.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's been a lot of acquisitions and mergers over the years, so when I went to PHMSA's website just now, I didn't even know the name of who that transmission line operator is, because it's not the distribution line that provides the gas to my	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific comments on or questions for the record, and particularly for Mr. Rezendez, but given that our time is short we want to keep on schedule, we'll potentially file those in paper for you. Thank you very much. The second panel
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's been a lot of acquisitions and mergers over the years, so when I went to PHMSA's website just now, I didn't even know the name of who that transmission line operator is, because it's not the distribution line that provides the gas to my home.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific comments on or questions for the record, and particularly for Mr. Rezendez, but given that our time is short we want to keep on schedule, we'll potentially file those in paper for you. Thank you very much. The second panel is excused. Thank you for your service, and we'll
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	transmission pipeline that runs through my neighborhood at the top of our street in our community. And, really, the primary reason why I knew that is because I saw the yellow poles sticking out of the ground with disks on them. And I know what those are because I've worked in the transportation field for many years and I've worked on pipeline issues in particular. But most people don't know what those are, most people don't know what they're looking at. So I know along those right-of-way there are those markers, but I have to tell you, there's been a lot of acquisitions and mergers over the years, so when I went to PHMSA's website just now, I didn't even know the name of who that transmission line operator is, because it's not the distribution line that provides the gas to my home. Washington Gas provides gas to my home.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I do open my gas bill because I know they should be mailing something to me, but I know it's a difficulty. This is what Mr. Rosekind was saying, there's information that's presented, but do people get it? Is it coming in? Are they internalizing it? Do they understand? So I know our team is very interested in this issue. We've had great response from our panelists and we thank you very much for your participation. And we look forward to continuing to work with you as this investigation proceeds, to draw on your expertise. I think we will have some specific comments on or questions for the record, and particularly for Mr. Rezendez, but given that our time is short we want to keep on schedule, we'll potentially file those in paper for you. Thank you very much. The second panel is excused. Thank you for your service, and we'll take a break for lunch and we'll come back at 1:00

PG	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 478		Page 480
1	AFTERNOON SESSION	1	Public Utilities Commission.
2	1:02 P.M.	2	My job is to influence and implement
3	CHAIRMAN HERSMAN: Welcome back, and we		policy within the commission with respect to
	will begin with our fourth panel on federal and		natural gas, electricity, communications, freight
	state oversight.		railroads, passenger railroads, rail transit and
6	Ms. Ward, if you could please swear in		rail crossings. I have a Bachelor's degree from
7	· · ·		San Diego State University in history, political
, 8	HEARING OFFICER WARD: Thank you, Madam		science and sociology. I've been with the
9	Chairman.		commission since the energy crisis in 2000.
9 10	For the record, the witnesses are seated	10	HEARING OFFICER WARD: Ms. Halligan.
	right now and they're standing up on their own.		JULIE HALLIGAN: My name is Julie
		11	Halligan and I'm
	Okay.		6
13	(LAUGHTER)	13	Can you hear me now? Okay.
14	HEARING OFFICER WARD: Please raise your	14	My name is Julie Halligan. I'm the
	right hand.	15	deputy director for the Consumer Protection and
16	DENNIS LEE,	16	5
17	RICHARD CLARK,	17	1 8
18	JULIE HALLIGAN,	18	, , , , , , , , , , , , , , , , , , , ,
19	LINDA DAUGHERTY,		electric, as well as electric generation
20	ZACH BARRETT, and	1	performance, transportation enforcement and
21	PAUL METRO		consumer fraud.
22	called as witnesses in this case,	22	I've been at the commission for about 19
	Page 479		Page 481
1	having been first duly sworn	1	years. I've been in this position for four years.
2	upon their oath,		I have a Bachelor of Science degree in finance.
3	testified as follows:	3	HEARING OFFICER WARD: Thank you.
4	EXAMINATION	4	Ms. Daugherty.
5	HEARING OFFICER WARD: Thank you.	5	LINDA DAUGHERTY: Good afternoon. My
6	Please be seated.	6	name is Linda Daugherty. I'm the deputy associate
7	For the record, I will state the name of		administrator for the Pipeline and Hazardous
8	the witnesses at the table.	1	Materials Safety Administration's Office of
9	We have Mr. Dennis Lee, Mr. Richard		Pipeline Safety.
10	Clark, Ms. Julie Halligan, Ms. Linda Daugherty,	10	My group includes the program
11	Mr. Zach Barrett, and Paul Metro.		development, engineering, regulatory development,
12	We'll start with you, Mr. Lee.		enforcement, state programs, and training and
13	DENNIS LEE: Good afternoon. My name is		qualification.
	Dennis Lee. I'm a senior utilities engineer with	14	I started in the regulatory business
	the CPUC. I've been with the CPUC since December		about 20 years ago. I'm a chemical engineer, and
	of 1999 and my duties and responsibilities at the		I started as an inspector and accident
	CPUC is to supervise the gas engineers in the gas		investigator for our central region. So I've been
	safety section at the CPUC.		in a while.
	HEARING OFFICER WARD: And Mr. Clark.		HEARING OFFICER WARD: And Mr. Barrett.
19		19	
20	RICHARD CLARK: Good afternoon. My name	20	ZACH BARRETT: Good afternoon. My name
	is Richard Clark. I'm the director of Consumer		is Zach Barrett. I'm the director of state
22	Protection and Safety Division at the California	22	programs. I have the responsibility of the

1	Gal Gas Hansinssion Elpenne - DAT 2		March 2, 2011
	Page 482		Page 484
	1 performance evaluations of state programs and	1	covers the entire IM program.
	2 distributing the associated grant funding with	2	And we would conduct these audits using
	3 that. I've been with the organization for 23	3	that protocol, going through the checklists, and
	4 years, working on 24 years. I've been an	4	reviewing related procedures, records, project
	5 inspector, then a senior project engineer, leading		files, pertaining to their program.
	6 our gas integrity management regulation	6	And throughout usually, it's about a
	7 development.	7	two-week audit with about four engineers. And
	8 I have been an enforcement officer, and	8	once we complete the audit, a report goes out, as
	9 I appreciate the opportunity to participate in the	9	in two of those exhibits, and we before we have
1	10 hearings today that you guys are giving us.	10	a response from the company, and we review their
	HEARING OFFICER WARD: And Mr. Metro.		response, and we close out the file if we agree
1	PAUL METRO: Good afternoon. My name is	12	with their response.
1	13 Paul Metro. I'm chief engineer of the	13	MR. NICHOLSON: What are the 14 areas
1	4 Pennsylvania Public Utility Commission Safety	14	that you discussed?
1	5 Office. I've been with the Pennsylvania Public	15	DENNIS LEE: Pardon me, why don't I
1	6 Utility Commission for about 26 years. Today I'm	16	just this is the 14 areas are: Identifying
1	7 representing the National Association of Pipeline	17	high consequence areas.
1	8 Safety Representatives as the Vice Chairman.	18	Baseline assessment plan.
1	HEARING OFFICER WARD: Thank you.	19	Identify threats.
2	And Madam Chairman, the witnesses have	20	Data integration and risk assessment.
2	21 been sworn in and qualified, and they're ready for	21	Direct assessment plan.
2	22 Mr. Nicholson to question them.	22	Remediation.
	Page 483		Page 485
	1 CHAIRMAN HERSMAN: Thank you very much,	1	Continual evaluation and assessment.
	2 Ms. Ward. And welcome back to Mr. Clark.	2	Conformatory direct assessment.
	3 We had a hearing on the Metrolink	3	Preventative and mitigative measures.
	4 accident in Southern California a few years ago,	4	Performance measures.
	5 and I understand how how the breadth of your	5	Record-keeping.
	6 responsibilities goes across many activities and	6	Management of change.
	7 areas, and thank you for coming back after having	7	Quality assurance.
	8 participated in a hearing in the past WMATA.	8	Communication plan.
	9 RICHARD CLARK: That's correct.	9	And submittal of program documents.
1	CHAIRMAN HERSMAN: Okay. So,	10	And those are the 14 areas.
1	1 Mr. Nicholson, please proceed.	11	MR. NICHOLSON: Okay. And during those
1	MR. NICHOLSON: Thank you, Madam		interviews, or those audits, are you actually
1	.3 Chairman.	13	interviewing persons?
	Mr. Lee, I'd like to start with you and	14	DENNIS LEE: Yes. Yes, we are. We
	15 discuss state and federal management audits that		interview individuals or groups.
	6 were performed on PG&E. If you would, could you	16	MR. NICHOLSON: And what sort of things
	17 tell us just overall how an integrity management	17	do you go over with those individuals?
	18 audit is performed for a natural gas operator?	18	DENNIS LEE: Basically, we go through
	DENNIS LEE: Basically, we would use		the checklist that covers these different areas.
	PHMSA's gas protocol forms. They're on a protocol	20	MR. NICHOLSON: So while you're filling
	21 checklist. Basically, it's about 168 pages long		out the checklist, you're actually entering the
2	22 and it covers about 14 areas, which basically	22	person

	&E Gas Transmission Pipeline - DAY 2	1	March 2, 2011
	Page 486		Page 488
	DENNIC LEE, Exactly		to do that
1	5		to do that.
2	1	2	MR. NICHOLSON: And in what years were
3			those?
4	DENNIS LEE: Exactly, yes. And if I may	4	DENNIS LEE: The self-assessment
5			the it was 2007 for one of them. And then 2009
6	and we review their programs and procedures	6	was another one.
7	pertaining to the areas.	7	MR. NICHOLSON: And the finding was then
8	MR. NICHOLSON: Okay. You say four	8	that PG&E was not responsive to those?
9	groups?	9	DENNIS LEE: Yes yes. They weren't
10	DENNIS LEE: Or groups.	10	as responsive. However, they did send a response,
11		11	and we're still currently reviewing their response
12			to their response to the third party findings.
13		13	MR. NICHOLSON: And how long do they
14		1	have to respond to a finding from a third party
15		1	consultant?
16		16	DENNIS LEE: There's no written rule.
17			It's just a timely doing it in a timely
18	· · · · ·	18	
	management program for effectiveness? What do you	19	MR. NICHOLSON: Also in this audit, you
	look at in that area?	1	looked at risk management. I believe that was one
21			of the 14 areas.
22	is they have they go through a continual	22	DENNIS LEE: Yes, it was.
	Page 487		Page 489
	Page 487		Page 489
	evaluation of their program, and they have their	1	MR. NICHOLSON: Can you discuss findings
2	evaluation of their program, and they have their own there's certain rules requiring their	1	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management?
2	evaluation of their program, and they have their	1	MR. NICHOLSON: Can you discuss findings
2	evaluation of their program, and they have their own there's certain rules requiring their	2	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management?
2	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things.	2 3	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that
2 3 4 5	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things.	2 3 4 5	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E.
2 3 4 5	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do.	2 3 4 5 6	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor
2 3 4 5 6 7	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do.	2 3 4 5 6	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures,
2 3 4 5 6 7 8	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity	2 3 4 5 6 7	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures,
2 3 4 5 6 7 8	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010?	2 3 4 5 6 7 8	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures.
2 3 4 5 6 7 8 9 10	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of	2 3 4 5 6 7 8 9	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand.
2 3 4 5 6 7 8 9 10 11	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third	2 3 4 5 6 7 8 9 10 11	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their
2 3 4 5 6 7 8 9 10 11 12	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management	2 3 4 5 6 7 8 9 10 11 12	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program?
2 3 4 5 6 7 8 9 10 11 12 13	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA	2 3 4 5 6 7 8 9 10 11 12 13	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or
2 3 4 5 6 7 8 9 10 11 12 13 14	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA process, and the consultant found some areas of	2 3 4 5 6 7 8 9 10 11 12 13 14	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or MR. NICHOLSON: Yes. Is that something
2 3 4 5 6 7 8 9 10 11 12 13 14 15	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA process, and the consultant found some areas of concern.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or MR. NICHOLSON: Yes. Is that something you'd audit?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA process, and the consultant found some areas of concern. So they PG&E went ahead and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or MR. NICHOLSON: Yes. Is that something you'd audit? DENNIS LEE: Yes, we would look at that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA process, and the consultant found some areas of concern. So they PG&E went ahead and remediated those issues, and and we let them	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or MR. NICHOLSON: Yes. Is that something you'd audit? DENNIS LEE: Yes, we would look at that. MR. NICHOLSON: And was there any
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA process, and the consultant found some areas of concern. So they PG&E went ahead and remediated those issues, and and we let them in.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or MR. NICHOLSON: Yes. Is that something you'd audit? DENNIS LEE: Yes, we would look at that. MR. NICHOLSON: And was there any finding in the area of whether they were reviewing
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA process, and the consultant found some areas of concern. So they PG&E went ahead and remediated those issues, and and we let them in. MR. NICHOLSON: Okay. So their	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or MR. NICHOLSON: Yes. Is that something you'd audit? DENNIS LEE: Yes, we would look at that. MR. NICHOLSON: And was there any finding in the area of whether they were reviewing their plans on an annual basis?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA process, and the consultant found some areas of concern. So they PG&E went ahead and remediated those issues, and and we let them in. MR. NICHOLSON: Okay. So their self-assessment was hiring a third party 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or MR. NICHOLSON: Yes. Is that something you'd audit? DENNIS LEE: Yes, we would look at that. MR. NICHOLSON: And was there any finding in the area of whether they were reviewing their plans on an annual basis? DENNIS LEE: No, there wasn't, I don't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA process, and the consultant found some areas of concern. So they PG&E went ahead and remediated those issues, and and we let them in. MR. NICHOLSON: Okay. So their self-assessment was hiring a third party consultant? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or MR. NICHOLSON: Yes. Is that something you'd audit? DENNIS LEE: Yes, we would look at that. MR. NICHOLSON: And was there any finding in the area of whether they were reviewing their plans on an annual basis? DENNIS LEE: No, there wasn't, I don't believe.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 evaluation of their program, and they have their own there's certain rules requiring their them to have effectiveness, either digs or other things. And we review that and make sure they are doing what are required to do. MR. NICHOLSON: Were there any findings related to the self-assessment of the integrity management program for PG&E in 2010? DENNIS LEE: Well, we had an area of concern where a contractor they hired a third party contractor to review their risk management plan, to review their ILI process and their ECA process, and the consultant found some areas of concern. So they PG&E went ahead and remediated those issues, and and we let them in. MR. NICHOLSON: Okay. So their self-assessment was hiring a third party consultant? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. NICHOLSON: Can you discuss findings from 2010 in the area of risk management? DENNIS LEE: In that MR. NICHOLSON: For PG&E. DENNIS LEE: It was just maybe minor procedural issues, where they had to maybe incorporate more into the procedures, strengthening certain parts of their procedures. I don't have the exact details. MR. NICHOLSON: I understand. Were annual reviews looked at of their program? DENNIS LEE: By PG&E? Or MR. NICHOLSON: Yes. Is that something you'd audit? DENNIS LEE: Yes, we would look at that. MR. NICHOLSON: And was there any finding in the area of whether they were reviewing their plans on an annual basis? DENNIS LEE: No, there wasn't, I don't

	Fage 490		Fage 492
1	little bit now to the 2005 audit.	1	MR. NICHOLSON: There's no notations, no
2	If you could tell me, on the 2005 audit,	2	findings, as far as how they're ranking their
3	were there any issues found on PG&E on their		riskiest pipe segments in their system.
	integrity management?	4	DENNIS LEE: No, there was no issue with
5	DENNIS LEE: Yes, there were some issues	5	that.
6	found.	6	
7	MR. NICHOLSON: Was that a joint audit	7	
	with yourself?	8	
9	DENNIS LEE: Yes. It was four		assessments identified in the risk management
-	individuals from the CPUC and one individual from	1	plan?
	PHMSA.	11	
12	MR. NICHOLSON: And what were the		the PHMSA check-off list, and there's also
	findings?		guidance material that's part of that, too.
14	DENNIS LEE: Again, same thing:	13	MR. NICHOLSON: Now, you get into the
			· · · -
15			plan itself, right? I mean, you're looking at the
	percent wall loss, they had classified it they		actual weightings and categories?
	didn't classify that as immediate; however, by the	17	
	end of the audit, they actually revised their	18	5
	plans and procedures, that they would state	19	\mathcal{L}
	that that if it was an 80 percent wall loss,		weightings used?
	they will consider that as an immediate finding.	21	DENNIS LEE: I don't believe so.
22	MR. NICHOLSON: Okay. And so they	22	MR. NICHOLSON: Okay. Okay.
	Page 491		Page 402
	Page 491		Page 493
1	Page 491 corrected that when you were onsite?	1	
1	corrected that when you were onsite?	1 2	Can you talk a little bit about
	corrected that when you were onsite? DENNIS LEE: Yes.		Can you talk a little bit about exception reports and how those are used on PG&E?
2	corrected that when you were onsite? DENNIS LEE: Yes.	2 3	Can you talk a little bit about exception reports and how those are used on PG&E?
2 3 4	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the	2 3 4	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we
2 3 4	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What	2 3 4 5	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports
2 3 4 5	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know.	2 3 4 5 6	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception
2 3 4 5 6	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132?	2 3 4 5 6 7	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't
2 3 4 5 6 7	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132?	2 3 4 5 6 7	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain
2 3 4 5 6 7 8 9	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't.	2 3 4 5 6 7 8 9	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some
2 3 4 5 6 7 8 9 10	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan,	2 3 4 5 6 7 8 9	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping
2 3 4 5 6 7 8 9 10 11	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to	2 3 4 5 6 7 8 9 10 11	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that
2 3 4 5 6 7 8 9 10 11	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to their selecting the top ten threats?	2 3 4 5 6 7 8 9 10 11	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do.
2 3 4 5 6 7 8 9 10 11 12 13	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to	2 3 4 5 6 7 8 9 10 11 12 13	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do. MR. NICHOLSON: What sort of procedural
2 3 4 5 6 7 8 9 10 11 12 13 14	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to their selecting the top ten threats? DENNIS LEE: No, we didn't have any comment.	2 3 4 5 6 7 8 9 10 11 12 13 14	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do. MR. NICHOLSON: What sort of procedural things?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to their selecting the top ten threats? DENNIS LEE: No, we didn't have any comment. MR. NICHOLSON: Is that typical? Have	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do. MR. NICHOLSON: What sort of procedural things? DENNIS LEE: Things like let me just
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to their selecting the top ten threats? DENNIS LEE: No, we didn't have any comment. MR. NICHOLSON: Is that typical? Have you seen that with other operators, that the risks	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do. MR. NICHOLSON: What sort of procedural things? DENNIS LEE: Things like let me just look at my notes briefly. (Perusing document)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to their selecting the top ten threats? DENNIS LEE: No, we didn't have any comment. MR. NICHOLSON: Is that typical? Have you seen that with other operators, that the risks are categorized, or sequentially listed, and then	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do. MR. NICHOLSON: What sort of procedural things? DENNIS LEE: Things like let me just look at my notes briefly. (Perusing document) Things like looking accepting a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to their selecting the top ten threats? DENNIS LEE: No, we didn't have any comment. MR. NICHOLSON: Is that typical? Have you seen that with other operators, that the risks are categorized, or sequentially listed, and then just taken as the top ten for action? Or is that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do. MR. NICHOLSON: What sort of procedural things? DENNIS LEE: Things like let me just look at my notes briefly. (Perusing document) Things like looking accepting a report to for basis of not excavating or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to their selecting the top ten threats? DENNIS LEE: No, we didn't have any comment. MR. NICHOLSON: Is that typical? Have you seen that with other operators, that the risks are categorized, or sequentially listed, and then just taken as the top ten for action? Or is that something where there's a fixed threshold for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do. MR. NICHOLSON: What sort of procedural things? DENNIS LEE: Things like let me just look at my notes briefly. (Perusing document) Things like looking accepting a report to for basis of not excavating or examining certain indications found, which are
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to their selecting the top ten threats? DENNIS LEE: No, we didn't have any comment. MR. NICHOLSON: Is that typical? Have you seen that with other operators, that the risks are categorized, or sequentially listed, and then just taken as the top ten for action? Or is that something where there's a fixed threshold for risk?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do. MR. NICHOLSON: What sort of procedural things? DENNIS LEE: Things like let me just look at my notes briefly. (Perusing document) Things like looking accepting a report to for basis of not excavating or examining certain indications found, which are required to do.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	corrected that when you were onsite? DENNIS LEE: Yes. MR. NICHOLSON: Do you know where the wall loss was on the findings in 2005? What areas? What segments? DENNIS LEE: I don't know. MR. NICHOLSON: Was this line 132? DENNIS LEE: It wasn't. MR. NICHOLSON: So when going through the threat assessment of the risk management plan, RMP1, did CPUC have any views with regards to their selecting the top ten threats? DENNIS LEE: No, we didn't have any comment. MR. NICHOLSON: Is that typical? Have you seen that with other operators, that the risks are categorized, or sequentially listed, and then just taken as the top ten for action? Or is that something where there's a fixed threshold for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Can you talk a little bit about exception reports and how those are used on PG&E? DENNIS LEE: Yes. In the 2010 audit, we found issues where PG&E had used exception reports more frequently than needed. The exception reports should basically be used when they can't meet a certain timeframe, or there's certain things that it can't do. However, they were actually using some of these exception reports to basically keeping them from doing certain procedural things that they were required to do. MR. NICHOLSON: What sort of procedural things? DENNIS LEE: Things like let me just look at my notes briefly. (Perusing document) Things like looking accepting a report to for basis of not excavating or examining certain indications found, which are

Page 490

Page 492

Page 494 would take exception to that? DENNIS LEE: Yeah. Because of certain	1	Page 496 look for pipe that may have been grandfathered?
-	1	look for pipe that may have been grandfathered?
DENNIS I EE: Veah Because of certain		
DENNIS EEE. Tean. Decause of certain	2	DENNIS LEE: Not for this audit in
reasons, they couldn't get to it.	3	particular, because the basically, the data
MR. NICHOLSON: They could not get to		that's in the PG&E's GIS is populated through
· -	5	their pipeline survey sheets. And we didn't get
-		into in-depth as looking into their purchase
	1	orders or their vouchers for the different
	8	pipeline information to verify that the
		information in their pipeline survey sheets were
		accurate.
•		MR. NICHOLSON: All right. Now, I'm
•		speaking more not so much about their survey
		sheets or their GIS, necessarily, moreso pipe that
-		would not have been hydro tested. You don't go
		back pipe that falls into 192.619.A3, you don't
-		look for verification or documentation as to how
		that pipe was categorized?
		DENNIS LEE: Not for this audit, no.
		MR. NICHOLSON: And you were just
	1	talking about the GIS database. Would it be
		typical for your audit to go in and look at where
		they had assumed values?
Page 495		Page 497
the extent?	1	DENNIS LEE: Yes, we do.
DENNIS LEE: That was pretty much	2	MR. NICHOLSON: You do. And was there
pretty much it. A lot of delays and things like	3	any finding in either 2005 or '10?
excavating all the schedule anomalies within	4	DENNIS LEE: No, there wasn't, because
367 365 days. Instead, they took 27 months.	5	if they didn't have the data, they would use
MR. NICHOLSON: Okay. Almost over	6	conservative values for the data.
two years.	7	MR. NICHOLSON: And they were using the
Can you speak up a little bit, too?	8	correct conservative values?
DENNIS LEE: Oh, sure.	9	DENNIS LEE: Yes.
MR. NICHOLSON: Thank you.	10	MR. NICHOLSON: Is that a spot check,
So as part of the audit in 2010, the	11	or
PG&E integrity management plan review included a	12	DENNIS LEE: Basically, these audits
review and documentation of their pre-1970 pipe	13	all these audits are randomly sampling of records.
and how it was established within a maximum	14	We just don't have the resources and the time to
allowable operating pressure?	15	look over every single record.
DENNIS LEE: They may have. I'm not	16	MR. NICHOLSON: And you say there were
sure.	17	four of you on that audit, right?
MR. NICHOLSON: You did not specifically	18	DENNIS LEE: Yes, there was.
review sections of the pipeline that was pre-1970?	19	MR. NICHOLSON: Was it four of you
DENNIS LEE: No, we didn't.	20	reviewing that same documentation or did you split
DENNIS LEE, NO, WC uluil t.		
MR. NICHOLSON: Okay. And that's not		it?
	the extent? DENNIS LEE: That was pretty much pretty much it. A lot of delays and things like excavating all the schedule anomalies within 367 365 days. Instead, they took 27 months. MR. NICHOLSON: Okay. Almost over two years. Can you speak up a little bit, too? DENNIS LEE: Oh, sure. MR. NICHOLSON: Thank you. So as part of the audit in 2010, the PG&E integrity management plan review included a review and documentation of their pre-1970 pipe and how it was established within a maximum allowable operating pressure? DENNIS LEE: They may have. I'm not sure. MR. NICHOLSON: You did not specifically	it? So that was a reason to take exception to actually digging DENNIS LEE: Well, actually, they delayed the response. They delayed examining the dig for beyond the 90 days. MR. NICHOLSON: Okay. DENNIS LEE: So but they did MR. NICHOLSON: So the exception report vas for a delay? DENNIS LEE: For a delay, yes. It was for a delay. MR. NICHOLSON: It was not an immediate DENNIS LEE: No, it was not an immediate, no. MR. NICHOLSON: Now, you said they were also using exception reports for some other procedural matters? Can you elaborate, or is that Page 495 the extent? DENNIS LEE: That was pretty much pretty much it. A lot of delays and things like excavating all the schedule anomalies within 367 365 days. Instead, they took 27 months. MR. NICHOLSON: Okay. Almost over two years. Can you speak up a little bit, too? DENNIS LEE: Oh, sure. MR. NICHOLSON: Thank you. So as part of the audit in 2010, the PG&E integrity management plan review included a review and documentation of their pre-1970 pipe and how it was established within a maximum allowable operating pressure? DENNIS LEE: They may have. I'm not sure. MR. NICHOLSON: You did not specifically 18

	-		
	Page 498		Page 500
1	looked at different projects, different lines.	1	RAVI CHHATRE: I have a couple of
2	MR. NICHOLSON: So you did look at the	2	questions for Mr. Clark.
3		3	And what I'd like to do is, maybe if you
4	DENNIS LEE: Some of it, yes.		can tell me what factors you have considered in
5	MR. NICHOLSON: Did you audit their		determining the audit frequency for operators, not
	process or procedure for populating the GIS		just PG&E, but California utility that you are a
	system?		director of.
8	DENNIS LEE: We may have. I I'm not	8	RICHARD CLARK: At my level, I'm not
	sure.		really involved in the planning of the auditing.
10	MR. NICHOLSON: Can you speak a little		However, what I do know about it the two folks
	bit about how much training a CPUC auditor might		on both sides of me probably know more about that
	receive?		than I do.
13	DENNIS LEE: Usually, for us to be	13	But I do know that we do we do more
	qualified as quality management inspectors, we go		than just integrity management audits. We do
	through two courses that are offered by PHMSA.		GEO112E audits. That's the general order that the
	And they are gas integrity management protocol		State of California instituted back in 1960 with
	course, and also the other course is called safety		regard to gas safety.
	valuation of inline inspection, which is ILI, or	18	We audit mobile home parks. We audit
	taking program courses. So that's two courses		propane facilities. We audit the distribution
	that we take.		facilities. We audit the transmission facilities
21	And also, we take there's seven		via the integrity management audits.
	web-based training that we do for the IM course.	22	And we basically, our approach in the
	6		· · · · · · · · · · · · · · · · · · ·
	Page 499		Page 501
1	That's also offered by PHMSA.	1	past has been to be able to touch every aspect of
1	That's also offered by PHMSA. MR. NICHOLSON: Okay. And the gas	1	past has been to be able to touch every aspect of the utilities operations as frequently as we can,
2	•	2	
2 3	MR. NICHOLSON: Okay. And the gas	2	the utilities operations as frequently as we can,
2 3	MR. NICHOLSON: Okay. And the gas integrity management program training, what does	2 3 4	the utilities operations as frequently as we can, and in as much depth as we can.
2 3 4 5	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover?	2 3 4 5	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the
2 3 4 5 6	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's	2 3 4 5	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them
2 3 4 5 6	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I	2 3 4 5 6 7	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years.
2 3 4 5 6 7	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training.	2 3 4 5 6 7 8	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory
2 3 4 5 6 7 8 9	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing?	2 3 4 5 6 7 8 9	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other
2 3 4 5 6 7 8 9	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM	2 3 4 5 6 7 8 9	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources
2 3 4 5 6 7 8 9 10	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs?	2 3 4 5 6 7 8 9 10 11	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow.
2 3 4 5 6 7 8 9 10 11 12	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes.	2 3 4 5 6 7 8 9 10 11	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe
2 3 4 5 6 7 8 9 10 11 12	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes. DENNIS LEE: Yes, those are the four	2 3 4 5 6 7 8 9 10 11 12 13	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe Ms. Halligan, can answer that.
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes. DENNIS LEE: Yes, those are the four things.	2 3 4 5 6 7 8 9 10 11 12 13	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe Ms. Halligan, can answer that. JULIE HALLIGAN: In terms of the audit
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes. DENNIS LEE: Yes, those are the four things. MR. NICHOLSON: It's not how it's	2 3 4 5 6 7 8 9 10 11 12 13 14	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe Ms. Halligan, can answer that. JULIE HALLIGAN: In terms of the audit frequency can you hear me?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes. DENNIS LEE: Yes, those are the four things. MR. NICHOLSON: It's not how it's executed.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe Ms. Halligan, can answer that. JULIE HALLIGAN: In terms of the audit frequency can you hear me? RAVI CHHATRE: Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes. DENNIS LEE: Yes, those are the four things. MR. NICHOLSON: It's not how it's executed. Can you tell me what kind of formal	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe Ms. Halligan, can answer that. JULIE HALLIGAN: In terms of the audit frequency can you hear me? RAVI CHHATRE: Yes. JULIE HALLIGAN: Basically, we decide
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes. DENNIS LEE: Yes, those are the four things. MR. NICHOLSON: It's not how it's executed. Can you tell me what kind of formal training? Is there a degree requirement for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe Ms. Halligan, can answer that. JULIE HALLIGAN: In terms of the audit frequency can you hear me? RAVI CHHATRE: Yes. JULIE HALLIGAN: Basically, we decide how frequently to audit. CHAIRMAN HERSMAN: Actually, I don't think everyone can hear you too well. If there
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes. DENNIS LEE: Yes, those are the four things. MR. NICHOLSON: It's not how it's executed. Can you tell me what kind of formal training? Is there a degree requirement for auditors?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe Ms. Halligan, can answer that. JULIE HALLIGAN: In terms of the audit frequency can you hear me? RAVI CHHATRE: Yes. JULIE HALLIGAN: Basically, we decide how frequently to audit. CHAIRMAN HERSMAN: Actually, I don't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes. DENNIS LEE: Yes, those are the four things. MR. NICHOLSON: It's not how it's executed. Can you tell me what kind of formal training? Is there a degree requirement for auditors? DENNIS LEE: Yes, an engineering degree. MR. NICHOLSON: Okay. That's all I have at this time. I'll pass this on to Mr. Chhatre.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe Ms. Halligan, can answer that. JULIE HALLIGAN: In terms of the audit frequency can you hear me? RAVI CHHATRE: Yes. JULIE HALLIGAN: Basically, we decide how frequently to audit. CHAIRMAN HERSMAN: Actually, I don't think everyone can hear you too well. If there are any other mics that are live over there, just make sure they are turned off. I heard a little
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. NICHOLSON: Okay. And the gas integrity management program training, what does that cover? DENNIS LEE: That's what that's exactly what it was for. The previous one that I mentioned, those are for the IM training. MR. NICHOLSON: For auditing? DENNIS LEE: IM auditing of IM programs? MR. NICHOLSON: Yes. DENNIS LEE: Yes, those are the four things. MR. NICHOLSON: It's not how it's executed. Can you tell me what kind of formal training? Is there a degree requirement for auditors? DENNIS LEE: Yes, an engineering degree. MR. NICHOLSON: Okay. That's all I have	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the utilities operations as frequently as we can, and in as much depth as we can. We have a statutory requirement on the mobile home parks that we inspect all 2800 of them at least once every five years. The rest, there are no statutory requirements for the inspections of the other facilities. We do that at as our resources allow. RAVI CHHATRE: And Mr. Lee, or maybe Ms. Halligan, can answer that. JULIE HALLIGAN: In terms of the audit frequency can you hear me? RAVI CHHATRE: Yes. JULIE HALLIGAN: Basically, we decide how frequently to audit. CHAIRMAN HERSMAN: Actually, I don't think everyone can hear you too well. If there are any other mics that are live over there, just

	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 502		Page 504
1	But maybe we can get your mic turned up	1	LINDA DAUGHERTY: I understood your
2	a little bit. Try again.	2	question in asking if the federal inspections are
3	JULIE HALLIGAN: Okay. Better?	3	revealing different answers than the state
4	We have for the PG&E system, they	4	inspections.
5	have about 17 distribution I forget if it's	5	RAVI CHHATRE: That's correct.
6	district or division, and about 11 of the	6	LINDA DAUGHERTY: I would say we are
7	transmission units, and we audit each of them		finding similar issues across the country. We are
8	depending on whether it's distribution or	8	finding during our integrity management reviews
9	transmission. We'll audit distribution every two	9	that operators, perhaps, are not doing as robust
	or three years. Transmission, we'll try to do it,		an assessment risk assessment. We're finding
11	again, every two or three years.		that there are areas that are requiring changes
12	We'll audit a unit more frequently if		and improvement, and that we are going to be
	we're finding if we're having significant		partnering later this summer for a workshop to
	findings or a higher number of findings in	14	address those very issues.
	previous audits.	15	There are changes that need to be made
16	So we'll be looking at areas of the	16	and improvements that need to occur.
	operators that might require more frequent	17	RAVI CHHATRE: And does it rely on
	inspections for the separate utilities in the		auditors to conduct the audits with a certain
	south. So for gas in San Diego, they each have		minimum frequency?
	lines, one distribution and one transmission unit,	20	JULIE HALLIGAN: We do not determine the
	and we'll audit those once every year, typically.		specific frequency. That would be based on the
22	That's our goal.	22	state's allocation of resources and priorities and
	Page 503		Page 505
1	But again, we we do it as frequently	1	risks.
2	as we can, given our resources, and we try to	2	One thing that was mentioned was that
3	increase it when we see something that	3	there are a variety of different types of
4	necessitates increasing the frequency of the	4	inspections. Integrity management is one of many.
5			
	audit.	5	So in a state where you have a lot of
6	audit. RAVI CHHATRE: Thank you.		So in a state where you have a lot of construction, you might be doing more
6 7		6	-
7	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered	6 7 8	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the
7	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all.	6 7 8	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not
7 8 9 10	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the	6 7 8 9 10	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are
7 8 9 10 11	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the	6 7 8 9 10 11	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity
7 8 9 10 11 12	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for	6 7 8 9 10 11 12	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits.
7 8 9 10 11 12 13	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more	6 7 8 9 10 11 12 13	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember,
7 8 9 10 11 12 13 14	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more frequently, but we haven't been able to at this	6 7 8 9 10 11 12 13 14	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember, it is for integrity management.
7 8 9 10 11 12 13 14 15	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more frequently, but we haven't been able to at this point.	6 7 8 9 10 11 12 13 14 15	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember, it is for integrity management. Now, how do you to what extent do you
7 8 9 10 11 12 13 14 15 16	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more frequently, but we haven't been able to at this point. RAVI CHHATRE: Ms. Daugherty, can you	6 7 9 10 11 12 13 14 15 16	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember, it is for integrity management. Now, how do you to what extent do you review the findings of the state auditors?
7 8 9 10 11 12 13 14 15 16 17	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more frequently, but we haven't been able to at this point. RAVI CHHATRE: Ms. Daugherty, can you tell us, has there been inconsistencies between	6 7 8 9 10 11 12 13 14 15 16 17	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember, it is for integrity management. Now, how do you to what extent do you review the findings of the state auditors? LINDA DAUGHERTY: We review them at a
7 8 9 10 11 12 13 14 15 16 17 18	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more frequently, but we haven't been able to at this point. RAVI CHHATRE: Ms. Daugherty, can you tell us, has there been inconsistencies between the state audit programs and the integrity	6 7 8 9 10 11 12 13 14 15 16 17 18	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember, it is for integrity management. Now, how do you to what extent do you review the findings of the state auditors? LINDA DAUGHERTY: We review them at a very high level. State and federal inspection
7 8 9 10 11 12 13 14 15 16 17 18 19	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more frequently, but we haven't been able to at this point. RAVI CHHATRE: Ms. Daugherty, can you tell us, has there been inconsistencies between the state audit programs and the integrity management plans that are audited?	6 7 8 9 10 11 12 13 14 15 16 17 18	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember, it is for integrity management. Now, how do you to what extent do you review the findings of the state auditors? LINDA DAUGHERTY: We review them at a very high level. State and federal inspection results are loaded into a database, and so we look
7 8 9 10 11 12 13 14 15 16 17 18 19 20	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more frequently, but we haven't been able to at this point. RAVI CHHATRE: Ms. Daugherty, can you tell us, has there been inconsistencies between the state audit programs and the integrity management plans that are audited? LINDA DAUGHERTY: Can you hear me?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember, it is for integrity management. Now, how do you to what extent do you review the findings of the state auditors? LINDA DAUGHERTY: We review them at a very high level. State and federal inspection results are loaded into a database, and so we look at those results for allocating them into buckets
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more frequently, but we haven't been able to at this point. RAVI CHHATRE: Ms. Daugherty, can you tell us, has there been inconsistencies between the state audit programs and the integrity management plans that are audited? LINDA DAUGHERTY: Can you hear me? Okay. I	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember, it is for integrity management. Now, how do you to what extent do you review the findings of the state auditors? LINDA DAUGHERTY: We review them at a very high level. State and federal inspection results are loaded into a database, and so we look at those results for allocating them into buckets so we can do some trend analysis to analyze the
7 8 9 10 11 12 13 14 15 16 17 18 19 20	RAVI CHHATRE: Thank you. I will be focusing more on integrity audits, not the other audits, but you answered them all. JULIE HALLIGAN: Oh, okay. On the integrity audits we've only done we've done the two for PG&E, and I believe the same number for the Sempra company. We'd like to do them more frequently, but we haven't been able to at this point. RAVI CHHATRE: Ms. Daugherty, can you tell us, has there been inconsistencies between the state audit programs and the integrity management plans that are audited? LINDA DAUGHERTY: Can you hear me?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	construction, you might be doing more construction. It varies. RAVI CHHATRE: And again, for the clarity of all the all the witnesses, I'm not going to specify, but all my questions are directed to the many directors of integrity management audits. So if I don't mention it, just remember, it is for integrity management. Now, how do you to what extent do you review the findings of the state auditors? LINDA DAUGHERTY: We review them at a very high level. State and federal inspection results are loaded into a database, and so we look at those results for allocating them into buckets

	Page 506		Page 508
	-		-
1	assessment is an area of more work.	1	happen.
2	So we do some aggregate. It's not	2	RAVI CHHATRE: My time is almost up.
	detailed review at the state level, except during	1	I'll ask you a last question. Does NAPSR believe
	our annual reviews. We may go into it in more	4	that you have time to conduct a study?
5	depth.	5	PAUL METRO: Yes, I believe we have
6	RAVI CHHATRE: Thank you.		time. We need to do it now, though. We need to
7	Mr. Metro, can you very briefly discuss	1	gather the data and start investigating where we
	the purpose of the National Association of	8	need to make changes. We need to make changes.
9	Pipeline Safety Representatives?	9	RAVI CHHATRE: I'll pass it on to
10	PAUL METRO: Yes. The purpose of the	10	Mr. Bob Trainor.
	National Association of Pipeline Safety	11	MR. TRAINOR: Mr. Clark, you indicated
	Representatives, sometimes referred to as NAPSR,	1	you're not specifically involved in the assessment
	is to have a group. We represent all the lower 48	13	of the integrity management program.
14	states, the District of Columbia, and Puerto Rico.	14	Did I understand you correctly on that?
15	Our purpose, our mission, is to provide		Is.
16	information on pipeline safety to represent the	16	What exactly what functions do you
17	states on pipeline safety issues with PHMSA, and		fulfill within CPUC? I just want to make sure
	basically to promote pipeline safety throughout	18	that the questions I ask you are appropriate.
19	the country.	19	RICHARD CLARK: Sure. Again, my job is
20	RAVI CHHATRE: As the chairman described	1	to influence and implement the policies of the
	in the opening statement, there was a rash of		commission. So I interact with the executive
22	accidents this last year, both in liquid and	22	director, the chief counsel, the chief
	Paga 507		Baga 500
	Page 507		Page 509
1	natural gas.	1	administrative law judge and the commissioners in
2	natural gas. Does what are the NAPSR's views in	1	administrative law judge and the commissioners in terms of influencing policy.
2 3	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR	2 3	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job
2 3 4	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than	2 3 4	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the
2 3 4	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based?	2 3 4 5	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we
2 3 4 5 6	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether	2 3 4 5	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization.
2 3 4 5 6 7	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that	2 3 4 5 6 7	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management
2 3 4 5 6 7	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to	2 3 4 5 6 7 8	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and
2 3 4 5 6 7	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting.	2 3 4 5 6 7 8 9	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details
2 3 4 5 6 7 8 9 10	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine	2 3 4 5 6 7 8 9 10	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they
2 3 4 5 6 7 8 9 10 11	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to	2 3 4 5 6 7 8 9 10 11	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the
2 3 4 5 6 7 8 9 10 11 12	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or	2 3 4 5 6 7 8 9 10 11	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program.
2 3 4 5 6 7 8 9 10 11 12 13	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in	2 3 4 5 6 7 8 9 10 11 12 13	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come
2 3 4 5 6 7 8 9 10 11 12 13 14	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in some areas.	2 3 4 5 6 7 8 9 10 11 12 13 14	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come to you with some kind of report of issues, what
2 3 4 5 6 7 8 9 10 11 12 13 14 15	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in some areas. We need to see that study; we need to	2 3 4 5 6 7 8 9 10 11 12 13 14 15	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come to you with some kind of report of issues, what would your role be then?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in some areas. We need to see that study; we need to start mining the data that we're gathering for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come to you with some kind of report of issues, what would your role be then? RICHARD CLARK: My role would be to go
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in some areas. We need to see that study; we need to start mining the data that we're gathering for IMP, and take a look at that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come to you with some kind of report of issues, what would your role be then? RICHARD CLARK: My role would be to go to the executive director and to the commissioners
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in some areas. We need to see that study; we need to start mining the data that we're gathering for IMP, and take a look at that. Maybe we need to make some adjustments.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come to you with some kind of report of issues, what would your role be then? RICHARD CLARK: My role would be to go to the executive director and to the commissioners and to other folks, and to try to change the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in some areas. We need to see that study; we need to start mining the data that we're gathering for IMP, and take a look at that. Maybe we need to make some adjustments. We believe as a group, the NAPSR group, that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come to you with some kind of report of issues, what would your role be then? RICHARD CLARK: My role would be to go to the executive director and to the commissioners and to other folks, and to try to change the policy, or to to institute either rule-making
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in some areas. We need to see that study; we need to start mining the data that we're gathering for IMP, and take a look at that. Maybe we need to make some adjustments. We believe as a group, the NAPSR group, that the IMP document, the IMP regulations, need to be a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come to you with some kind of report of issues, what would your role be then? RICHARD CLARK: My role would be to go to the executive director and to the commissioners and to other folks, and to try to change the policy, or to to institute either rule-making or an enforcement action. I have the enforcement
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in some areas. We need to see that study; we need to start mining the data that we're gathering for IMP, and take a look at that. Maybe we need to make some adjustments. We believe as a group, the NAPSR group, that the IMP document, the IMP regulations, need to be a breathing, dynamic, adaptable set of regulations,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come to you with some kind of report of issues, what would your role be then? RICHARD CLARK: My role would be to go to the executive director and to the commissioners and to other folks, and to try to change the policy, or to to institute either rule-making or an enforcement action. I have the enforcement staff within the commission, also.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	natural gas. Does what are the NAPSR's views in terms of management regulation? Does NAPSR believe that this should be more prescriptive than performance-based? PAUL METRO: NAPSR's position on whether the performance-based approach is working is that we need to see some studies that PHMSA needs to prepare from the data that they are collecting. IMP has been in the works for about nine years, and we haven't seen any studies as to whether performance-based measures are working or if we need more prescriptive regulations, maybe in some areas. We need to see that study; we need to start mining the data that we're gathering for IMP, and take a look at that. Maybe we need to make some adjustments. We believe as a group, the NAPSR group, that the IMP document, the IMP regulations, need to be a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	administrative law judge and the commissioners in terms of influencing policy. In terms of implementing policy, my job is to to guide the organization in the direction of the vision and the culture that we have developed for the organization. With respect to the integrity management program itself, I rely upon my deputy director and program manager to to take care of the details of that, and to report to me any issues that they have with regard to the implementation or the findings that we're finding in that program. MR. TRAINOR: And if your staff did come to you with some kind of report of issues, what would your role be then? RICHARD CLARK: My role would be to go to the executive director and to the commissioners and to other folks, and to try to change the policy, or to to institute either rule-making or an enforcement action. I have the enforcement

	1	March 2, 201
Page 510		Page 512
receive any federal funding?	1	involved, and then there would be involvement
	2	across the commission in terms of administrative
	3	law judges and attorneys for enforcement actions
•	1	and rule-makings and commissioners and commission
RICHARD CLARK: I review the	1	staff.
documentation of the of the audits that are	6	So I'm sorry. I'm not including the
done each year by PHMSA and sign off on them, and	7	folks in the Division of Ratepayer Advocates. I'm
		also not including the folks in the energy
MR. TRAINOR: Are there any conditions	9	commission who work on gas.
-	10	So I'm going to say somewhere around 35
	11	people, maybe. 30, 35 people.
-	12	MR. TRAINOR: The let's try to put a
numerous categories of performance that PHMSA	13	box around the pipeline safety division.
looks for with us, one of which is our staffing	14	The enforcement and oversight of
	15	pipeline safety programs, would that be just the
-		13 inspectors and two supervisors?
all of them at this point.	17	RICHARD CLARK: Two supervisors, program
MR. TRAINOR: And I assume the funding	18	project supervisor, and a half of a program
is determined by how well you do? Or how much you	19	manager, a third of a of a deputy director.
need to improve?	20	MR. TRAINOR: Okay. So are we
RICHARD CLARK: It's how well we do.	21	dealing with 15, 20 people?
MR. TRAINOR: Okay. And how has the	22	RICHARD CLARK: About 20 people, I would
Page 511		Page 513
commission fared in recent years?	1	say.
RICHARD CLARK: Well, for the last four	2	MR. TRAINOR: Okay. Now, what
or five years, we have received 100 percent, I	3	percentage of the funding for the commission is
believe, is our score.	4	directed to the pipeline safety program,
MR. TRAINOR: One of the things that we	5	enforcement program?
wanted to explore with the commission was, we know	6	RICHARD CLARK: I don't I don't know
that it has multiple responsibilities, one of	7	the answer to that. All of the federal funding
which is rate-setting for utilities within the	8	that we get is definitely dedicated to the
state, including natural gas operations.	9	pipeline safety program.
And secondly, the pipeline safety	10	MR. TRAINOR: Would you confirm that
And secondly, the pipeline safety program for state operators.	10	MR. TRAINOR: Would you confirm that number for us, please?
	10	-
program for state operators.	10 11	number for us, please?
program for state operators. How how many people are employed by	10 11 12	number for us, please? RICHARD CLARK: Certainly.
program for state operators. How how many people are employed by the commission?	10 11 12 13 14	number for us, please? RICHARD CLARK: Certainly. (Perusing laptop)
program for state operators. How how many people are employed by the commission? RICHARD CLARK: The commission has about	10 11 12 13 14 15	number for us, please? RICHARD CLARK: Certainly. (Perusing laptop) MR. TRAINOR: I would like to explore
program for state operators. How how many people are employed by the commission? RICHARD CLARK: The commission has about a thousand employees.	10 11 12 13 14 15 16	number for us, please? RICHARD CLARK: Certainly. (Perusing laptop) MR. TRAINOR: I would like to explore with you for a minute how the rate-setting
program for state operators. How how many people are employed by the commission? RICHARD CLARK: The commission has about a thousand employees. MR. TRAINOR: And what number or	10 11 12 13 14 15 16 17	number for us, please? RICHARD CLARK: Certainly. (Perusing laptop) MR. TRAINOR: I would like to explore with you for a minute how the rate-setting responsibilities of the commission work with the
program for state operators. How how many people are employed by the commission? RICHARD CLARK: The commission has about a thousand employees. MR. TRAINOR: And what number or percentage of these employees would be dedicated	10 11 12 13 14 15 16 17	number for us, please? RICHARD CLARK: Certainly. (Perusing laptop) MR. TRAINOR: I would like to explore with you for a minute how the rate-setting responsibilities of the commission work with the pipeline safety responsibilities of the
program for state operators. How how many people are employed by the commission? RICHARD CLARK: The commission has about a thousand employees. MR. TRAINOR: And what number or percentage of these employees would be dedicated to the pipeline safety program?	10 11 12 13 14 15 16 17 18	number for us, please? RICHARD CLARK: Certainly. (Perusing laptop) MR. TRAINOR: I would like to explore with you for a minute how the rate-setting responsibilities of the commission work with the pipeline safety responsibilities of the commission. On the surface, there would appear to be
program for state operators. How how many people are employed by the commission? RICHARD CLARK: The commission has about a thousand employees. MR. TRAINOR: And what number or percentage of these employees would be dedicated to the pipeline safety program? RICHARD CLARK: All told, currently we	10 11 12 13 14 15 16 17 18 19	number for us, please? RICHARD CLARK: Certainly. (Perusing laptop) MR. TRAINOR: I would like to explore with you for a minute how the rate-setting responsibilities of the commission work with the pipeline safety responsibilities of the commission. On the surface, there would appear to be
	Page 510 receive any federal funding? RICHARD CLARK: It does, yes. MR. TRAINOR: Are you involved with that process? RICHARD CLARK: I review the documentation of the of the audits that are done each year by PHMSA and sign off on them, and kick them up to the executive director. MR. TRAINOR: Are there any conditions on the funding with respect to the commission's performance or their own self-evaluation? RICHARD CLARK: Certainly. There are numerous categories of performance that PHMSA looks for with us, one of which is our staffing levels. The other is the number of inspections that we're doing. And I'm sorry, I can't recall all of them at this point. MR. TRAINOR: And I assume the funding is determined by how well you do? Or how much you need to improve? RICHARD CLARK: It's how well we do. MR. TRAINOR: Okay. And how has the Page 511 commission fared in recent years? RICHARD CLARK: Well, for the last four or five years, we have received 100 percent, I believe, is our score. MR. TRAINOR: One of the things that we wanted to explore with the commission was, we know that it has multiple responsibilities, one of which is rate-setting for utilities within the	receive any federal funding? 1 RICHARD CLARK: It does, yes. 2 MR. TRAINOR: Are you involved with that 3 process? 4 RICHARD CLARK: I review the 5 documentation of the of the audits that are 6 done each year by PHMSA and sign off on them, and 7 kick them up to the executive director. 8 MR. TRAINOR: Are there any conditions 9 on the funding with respect to the commission's 10 performance or their own self-evaluation? 11 RICHARD CLARK: Certainly. There are 12 numerous categories of performance that PHMSA 13 looks for with us, one of which is our staffing 14 levels. The other is the number of inspections 15 that we're doing. And I'm sorry, I can't recall 16 all of them at this point. 17 MR. TRAINOR: And I assume the funding 18 is determined by how well you do? Or how much you 19 need to improve? 20 RICHARD CLARK: It's how well we do. 21 MR. TRAINOR: Okay. And how has the 22 Page 511 commission fared in recent years? 1 RICHARD CLARK: Well, for the last four 2 or five years, we have received 100 percent, I 3 believe, is our score. 4 MR. TRAINOR: One of the things that we 5 wanted to explore with the commission was, we know 6 that it has multiple responsibilities, one of 7 which is rate-setting for utilities within the 8

	a E Gas Transmission Pipenne - DAY 2	1	
	Page 514		Page 516
1	not sure what you mean.	1	One of the intervenors is the
2	MR. TRAINOR: Well, for example, would a	2	commission's Division of Ratepayer Advocates, and
3	pipeline operator approach the commission for a	3	their primary responsibility is to make sure that
4	rate increase in order to fund a capital	4	rates are just and reasonable, and to look closely
5	improvement project?	5	at the utilities application for revenues and
6	RICHARD CLARK: The Ms. Halligan is	6	rates, to review that.
7	much more of an expert in this regard than I am.	7	The Utilities Safety and Reliability
8	But generally speaking, the utilities come	8	branch, we don't participate directly in the rate
	together come forward to the commission in a	1	cases. We'll provide advisory support to the ALJ
10	gas accord case, or in a general rate case, and	10	or to the energy division that's reviewing the
11	they ask for a certain amount of money with regard	11	rate case.
	to their gas operations.	12	We'll also provide technical support to
13	And the commission approves it or denies	13	the Division of Ratepayer Advocates. If they're
14	it or modifies the request issues and decision on	14	reviewing a particular part of a utilities
	it, and the expenditures are then not tracked.	15	application that has to do with maintenance,
16	MR. TRAINOR: All right. Well, maybe I	16	operation and expenditures, or capital projects,
17	should redirect that question to Ms. Halligan,	17	
	then.	18	whether it's reasonable, staff from DRA has
19	JULIE HALLIGAN: And what was your	1	
20	question?		safety group to ask for an opinion on what we
21	MR. TRAINOR: Your mic, please?	1	think of particular particular projects.
22	JULIE HALLIGAN: Your question again?	22	
	Page 515		Page 517
1	Page 515 RICHARD CLARK: It's on.	1	
1	RICHARD CLARK: It's on.		Page 517 intervenors that can participate in the utilities rate case.
2	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can		intervenors that can participate in the utilities rate case.
2	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now?	2	intervenors that can participate in the utilities rate case.
2 3 4	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was,	2 3	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment.
2 3 4 5	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the	2 3 4 5	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment.
2 3 4 5 6	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds	2 3 4 5	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me.
2 3 4 5 6	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities.	2 3 4 5 6	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA?
2 3 4 5 6 7 8	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds	2 3 4 5 6 7	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's
2 3 4 5 6 7 8 9	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep	2 3 4 5 6 7 8	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's
2 3 4 5 6 7 8 9 10	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I	2 3 4 5 6 7 8 9	 intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym
2 3 4 5 6 7 8 9 10	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or	2 3 4 5 6 7 8 9 10 11	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym
2 3 4 5 6 7 8 9 10 11 12	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy.	2 3 4 5 6 7 8 9 10 11	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as
2 3 4 5 6 7 8 9 10 11 12	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy. And on the other hand, there's got to be	2 3 4 5 6 7 8 9 10 11 12	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as CPSD.
2 3 4 5 6 7 8 9 10 11 12 13 14	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy. And on the other hand, there's got to be enough money to fund the pipeline safety program.	2 3 4 5 6 7 8 9 10 11 12 13 14	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as CPSD.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy. And on the other hand, there's got to be enough money to fund the pipeline safety program. So if the commission is the sole body	2 3 4 5 6 7 8 9 10 11 12 13 14 15	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as CPSD. MR. TRAINOR: Okay. Have you ever had
2 3 4 5 6 7 8 9 10 11 12 13 14 15	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy. And on the other hand, there's got to be enough money to fund the pipeline safety program. So if the commission is the sole body with those responsibilities, how do you resolve	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as CPSD. MR. TRAINOR: Okay. Have you ever had an instance where an operator has come to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy. And on the other hand, there's got to be enough money to fund the pipeline safety program. So if the commission is the sole body with those responsibilities, how do you resolve any conflicts between those two needs?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as CPSD. MR. TRAINOR: Okay. Have you ever had an instance where an operator has come to the commission for a rate increase for the sole
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy. And on the other hand, there's got to be enough money to fund the pipeline safety program. So if the commission is the sole body with those responsibilities, how do you resolve any conflicts between those two needs? JULIE HALLIGAN: Well, when the when	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as CPSD. MR. TRAINOR: Okay. Have you ever had an instance where an operator has come to the commission for a rate increase for the sole purpose of improving the integrity or the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy. And on the other hand, there's got to be enough money to fund the pipeline safety program. So if the commission is the sole body with those responsibilities, how do you resolve any conflicts between those two needs? JULIE HALLIGAN: Well, when the when the operators come in and file for their gas	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<pre>intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as CPSD. MR. TRAINOR: Okay. Have you ever had an instance where an operator has come to the commission for a rate increase for the sole purpose of improving the integrity or the condition of the system, and was denied a rate increase?</pre>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy. And on the other hand, there's got to be enough money to fund the pipeline safety program. So if the commission is the sole body with those responsibilities, how do you resolve any conflicts between those two needs? JULIE HALLIGAN: Well, when the when the operators come in and file for their gas revenue requirement and rates, there are several	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as CPSD. MR. TRAINOR: Okay. Have you ever had an instance where an operator has come to the commission for a rate increase for the sole purpose of improving the integrity or the condition of the system, and was denied a rate increase?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	RICHARD CLARK: It's on. JULIE HALLIGAN: I'll try again. Can you hear me now? MR. TRAINOR: Yes. The question was, the rate-setting responsibilities of the commission, at least on the surface, seem at odds with the pipeline safety responsibilities. The commission, on the one hand, I think, I would guess that there's pressure to keep rates as low as possible because of consumer or public desire for low energy. And on the other hand, there's got to be enough money to fund the pipeline safety program. So if the commission is the sole body with those responsibilities, how do you resolve any conflicts between those two needs? JULIE HALLIGAN: Well, when the when the operators come in and file for their gas revenue requirement and rates, there are several intervenors that those cases are assigned to an	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<pre>intervenors that can participate in the utilities rate case. CPSD isn't usually isn't one. MR. TRAINOR: Excuse me for a moment. Your acronyms, you're going to have to explain them for me. What's DRA? JULIE HALLIGAN: DRA is the commission's Division of Ratepayer Advocates. MR. TRAINOR: And the second acronym JULIE HALLIGAN: Consumer Protection and Safety Division. I'm sorry. I refer to them as CPSD. MR. TRAINOR: Okay. Have you ever had an instance where an operator has come to the commission for a rate increase for the sole purpose of improving the integrity or the condition of the system, and was denied a rate increase? JULIE HALLIGAN: Well, when the when</pre>

1	PG	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
		Page 518		Page 520
	1	distribution revenues, they're going into a	1	a lot of pressure on the gas utilities to save
		general rate case application.	1	whatever revenues they could, and at times,
	2	For the transmission costs, they file	3	
		those currently as part of a gas transmission and		they decreased.
			4	•
		storage application. Those applications cover	5	
		backbone transmission, local transmission, storage		little bit of a a conflict there, at least from
		operation, and customer access charges for		your experience?
	8	those for those groups.	8	
	9	So when the utilities file rate cases	9	
		or for those costs, they're covering all the costs	1	time to explore this further, but we do have other
		to provide those services to their customers.	11	topics we want to address.
		They're forecasting the rates for all of those	12	8 8 8
	13	areas, and	13	Mr. Nicholson.
	14	MR. TRAINOR: Okay. Sorry. My time's	14	MR. NICHOLSON: I want to talk a little
	15	running out, and I have one question to ask	15	bit about the MAOP grandfather clause. I'll start
	16	Mr. Metro.	16	with you, Mr. Clark.
	17	It sounds like a very involved process.	17	I'm curious: Does the CPUC trend what
	18	Perhaps the commission could provide us with a	18	percent of intrastate natural gas transmission
	19	more detailed explanation as to how the setting of	19	lanes have maximum allowable operating pressures
	20	rates is done in the context	20	established without conducting a hydro test?
	21	JULIE HALLIGAN: We'd be happy to. The	21	RICHARD CLARK: We have not in the past.
	22	point I was going to make is that there are a lot	22	We certainly are now.
		Page 519		Page 521
	1	of costs that are covered in that one application,	1	MR. NICHOLSON: Right. So there were no
		and safety reliability projects, those type of	2	
		projects, are only one part of a much broader	3	
		application.		has a position on non-hydro tested pre-1970
	5	MR. TRAINOR: I'd like to address the	1	pipeline and what kind of risk you think those
		last question to Mr. Metro.		might pose?
	7	Mr. Metro, do you see these types of	7	
		problems occurring in other state utility	8	
		commissions in the country?	9	
	9 10	PAUL METRO: Specifically what type of	10	
				especially the pipes that are non-hydro
- I.	ΤT	problems are you talking	1 1 1	
	10	MR TRAINOR Well the rate setting	10	test-cononie is the lock of information that we
	12	MR. TRAINOR: Well, the rate-setting	1	test-capable, is the lack of information that we
	13	responsibilities conflicting with pipeline safety	13	have on those, lack of records, the and even
	13 14	responsibilities conflicting with pipeline safety programs.	13 14	have on those, lack of records, the and even when we have records, if we can trust the findings
	13 14 15	responsibilities conflicting with pipeline safety programs. PAUL METRO: There has been a tremendous	13 14 15	have on those, lack of records, the and even when we have records, if we can trust the findings that we find with the records.
	13 14 15 16	responsibilities conflicting with pipeline safety programs. PAUL METRO: There has been a tremendous pressure across the nation to keep rates low. And	13 14 15 16	have on those, lack of records, the and even when we have records, if we can trust the findings that we find with the records. So we would look at it and say, this is
	13 14 15 16 17	responsibilities conflicting with pipeline safety programs. PAUL METRO: There has been a tremendous pressure across the nation to keep rates low. And I can specifically speak to Pennsylvania, that we	13 14 15 16 17	have on those, lack of records, the and even when we have records, if we can trust the findings that we find with the records. So we would look at it and say, this is an area in which we would like PHMSA to review,
	13 14 15 16 17 18	responsibilities conflicting with pipeline safety programs. PAUL METRO: There has been a tremendous pressure across the nation to keep rates low. And I can specifically speak to Pennsylvania, that we went through a restructuring process in the year	13 14 15 16 17 18	have on those, lack of records, the and even when we have records, if we can trust the findings that we find with the records. So we would look at it and say, this is an area in which we would like PHMSA to review, and take a look at reducing the MAOP for lines
	13 14 15 16 17 18 19	responsibilities conflicting with pipeline safety programs. PAUL METRO: There has been a tremendous pressure across the nation to keep rates low. And I can specifically speak to Pennsylvania, that we went through a restructuring process in the year 2000, and essentially came out of the gas	13 14 15 16 17 18 19	have on those, lack of records, the and even when we have records, if we can trust the findings that we find with the records. So we would look at it and say, this is an area in which we would like PHMSA to review, and take a look at reducing the MAOP for lines pre-1971 that cannot be hydro tested and that the
	13 14 15 16 17 18 19 20	responsibilities conflicting with pipeline safety programs. PAUL METRO: There has been a tremendous pressure across the nation to keep rates low. And I can specifically speak to Pennsylvania, that we went through a restructuring process in the year 2000, and essentially came out of the gas restructuring process with rate freezes for	13 14 15 16 17 18 19 20	have on those, lack of records, the and even when we have records, if we can trust the findings that we find with the records. So we would look at it and say, this is an area in which we would like PHMSA to review, and take a look at reducing the MAOP for lines pre-1971 that cannot be hydro tested and that the records are suspect.
	13 14 15 16 17 18 19 20 21	responsibilities conflicting with pipeline safety programs. PAUL METRO: There has been a tremendous pressure across the nation to keep rates low. And I can specifically speak to Pennsylvania, that we went through a restructuring process in the year 2000, and essentially came out of the gas restructuring process with rate freezes for anywhere from seven to ten years.	13 14 15 16 17 18 19 20 21	have on those, lack of records, the and even when we have records, if we can trust the findings that we find with the records. So we would look at it and say, this is an area in which we would like PHMSA to review, and take a look at reducing the MAOP for lines pre-1971 that cannot be hydro tested and that the records are suspect. So we would look at a 20 percent
	13 14 15 16 17 18 19 20	responsibilities conflicting with pipeline safety programs. PAUL METRO: There has been a tremendous pressure across the nation to keep rates low. And I can specifically speak to Pennsylvania, that we went through a restructuring process in the year 2000, and essentially came out of the gas restructuring process with rate freezes for	13 14 15 16 17 18 19 20 21	have on those, lack of records, the and even when we have records, if we can trust the findings that we find with the records. So we would look at it and say, this is an area in which we would like PHMSA to review, and take a look at reducing the MAOP for lines pre-1971 that cannot be hydro tested and that the records are suspect.

	de Gas Hansmission Elpenne - Ditt 2		11111CH 2, 2011
	Page 522		Page 524
-	MP MCHOI SON: You say that's been	4	some extion
1	MR. NICHOLSON: You say that's been		some action.
2	communicated to PHMSA?	2	MR. NICHOLSON: When is that workshop?
3	PAUL METRO: Not yet. We're working on	3	LINDA DAUGHERTY: Right now, I believe
4	that.	4	it's targeted for July.
5	MR. NICHOLSON: You know where my next	5	MR. NICHOLSON: Has CPUC seen any data
6	question was going to go.	6	that there was a seam issue?
7	(LAUGHTER)	7	LINDA DAUGHERTY: On DSAW, I'm not aware
	MR. NICHOLSON: And in fact, it is going		of any.
8			•
9		9	MR. NICHOLSON: Mr. Clark, I'll ask you
10	We do have an exhibit. It's 2CT, RT,		the same question: The DSAW issue that was
11	and it shows that 60 percent of the nation's	11	mentioned yesterday, is that something that CPUC
12	national gas transmission lines were installed	12	feels needs further research?
13	prior to 1970. And I'll ask a similar question to	13	RICHARD CLARK: Yes, it is.
	you that I asked CPUC: Does PHMSA track what	14	MR. NICHOLSON: And has CPUC seen any
	percent of this pre-1970 pipeline had an MAOP		evidence of that sort of problem in the past on
			other lines?
	established under 192.619.83?		
17	LINDA DAUGHERTY: No, it does not.	17	RICHARD CLARK: We have not not that
18	8		I know of, that we've seen any issues with regard
19	MR. NICHOLSON: Mr. Metro, when do you	19	to DSAW pipe. However, one of our first actions
20	expect to get back to PHMSA with that information?	20	following the incident was to have all the
21	PAUL METRO: We'll speak to them in the	21	utilities find locate all of the 30-inch DSAW
22	near future about it.		pipe that they had in their systems that had not
	nour future about it.	22	pipe that they had in their systems that had not
	Page 523		Page 525
1	JULIE HALLIGAN: Would it be possible to		been hydro tested, and reduce the pressure by
_	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them?		
_	JULIE HALLIGAN: Would it be possible to		been hydro tested, and reduce the pressure by
2 3	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them?	2 3	been hydro tested, and reduce the pressure by 20 percent.
2 3 4	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's	2 3 4	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by
2 3 4 5	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during	2 3 4 5	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the
2 3 4 5 6	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld	2 3 4 5 6	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to
2 3 4 5 6 7	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132.	2 3 4 5 6 7	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the
2 3 4 5 6 7 8	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first	2 3 4 5 6 7 8	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency.
2 3 4 5 6 7 8	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that.	2 3 4 5 6 7 8 9	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation
2 3 4 5 6 7 8 9 10	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a	2 3 4 5 6 7 8 9	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear
2 3 4 5 6 7 8 9 10	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that.	2 3 4 5 6 7 8 9	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear
2 3 4 5 6 7 8 9 10	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a	2 3 4 5 6 7 8 9 10	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear
2 3 4 5 6 7 8 9 10 11 12	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up?	2 3 4 5 6 7 8 9 10 11	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion?
2 3 4 5 6 7 8 9 10 11 12 13	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when	2 3 4 5 6 7 8 9 10 11 12 13	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate?
2 3 4 5 6 7 8 9 10 11 12 13 14	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when we find information that could tell us that	2 3 4 5 6 7 8 9 10 11 12 13 14	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate? DENNIS LEE: Yeah, that was accurate,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when we find information that could tell us that there's a problem out there that could be	2 3 4 5 6 7 8 9 10 11 12 13 14 15	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate? DENNIS LEE: Yeah, that was accurate, what they were saying. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when we find information that could tell us that there's a problem out there that could be systematic or widespread, we're going to research	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate? DENNIS LEE: Yeah, that was accurate, what they were saying. Yes. MR. NICHOLSON: It sounded to me as if
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when we find information that could tell us that there's a problem out there that could be systematic or widespread, we're going to research it and see if if we have data to support it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate? DENNIS LEE: Yeah, that was accurate, what they were saying. Yes. MR. NICHOLSON: It sounded to me as if by not running it their line up to MAOP, that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when we find information that could tell us that there's a problem out there that could be systematic or widespread, we're going to research it and see if if we have data to support it. We also I mentioned a risk	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate? DENNIS LEE: Yeah, that was accurate, what they were saying. Yes. MR. NICHOLSON: It sounded to me as if by not running it their line up to MAOP, that they would suffer a decreased operating pressure
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when we find information that could tell us that there's a problem out there that could be systematic or widespread, we're going to research it and see if if we have data to support it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate? DENNIS LEE: Yeah, that was accurate, what they were saying. Yes. MR. NICHOLSON: It sounded to me as if by not running it their line up to MAOP, that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when we find information that could tell us that there's a problem out there that could be systematic or widespread, we're going to research it and see if if we have data to support it. We also I mentioned a risk	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate? DENNIS LEE: Yeah, that was accurate, what they were saying. Yes. MR. NICHOLSON: It sounded to me as if by not running it their line up to MAOP, that they would suffer a decreased operating pressure
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when we find information that could tell us that there's a problem out there that could be systematic or widespread, we're going to research it and see if if we have data to support it. We also I mentioned a risk management a risk assessment workshop. We are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate? DENNIS LEE: Yeah, that was accurate, what they were saying. Yes. MR. NICHOLSON: It sounded to me as if by not running it their line up to MAOP, that they would suffer a decreased operating pressure every five years? Was that how I understood
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	JULIE HALLIGAN: Would it be possible to get a copy of anything you provide to them? MR. NICHOLSON: Yes. Ms. Daugherty, yesterday, there was discussion from PG&E's integrity management team suggesting that during panel 2 that they might have a pre-1961 DSAW weld problem on line 132. And I just wondered, that was the first time I heard of anything like that. Is PHMSA ignoring this, or is this a matter that PHMSA is going to take up? LINDA DAUGHERTY: Definitely, any seam issue is definitely of concern for us. And when we find information that could tell us that there's a problem out there that could be systematic or widespread, we're going to research it and see if if we have data to support it. We also I mentioned a risk management a risk assessment workshop. We are also having a workshop on seam issues to explore	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	been hydro tested, and reduce the pressure by 20 percent. MR. NICHOLSON: Now, Mr. Lee, I'll ask you also. Yesterday, there was an explanation by PG&E's integrity management team regarding the practice of running their MAOP or running up to MAOP every five years. I think that was the frequency. Can you tell me: Was that explanation accurate as to why they did that? Did you hear that discussion? DENNIS LEE: Yes, I did. MR. NICHOLSON: Was that accurate? DENNIS LEE: Yeah, that was accurate, what they were saying. Yes. MR. NICHOLSON: It sounded to me as if by not running it their line up to MAOP, that they would suffer a decreased operating pressure every five years? Was that how I understood that, is that correct?

PG	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 526		Page 528
4	lat's car for example they have a maximum	-	But having said that the
	let's say, for example, they have a maximum	1	But having said that, the
	operating pressure of 300 and they have an MAOP on that line at 275, and in the first magneting	1	artificially raising the pressure in a pipe that
	that line at 375, and in the five years preceding		has identified integrity seam issues seems to be a
	the NACA, the preceding five years, if they don't		wrongheaded approach to safety.
	get up to the 375 value, then they if they	5	As to whether or not it would cause
	do let's say in the last five years, the		stresses on the pipe that would result in a
	highest pressure that they ran on that line was	1	fracture of the pipe, raising it incrementally
	300, and they've been operating at 250 for the		once every five years, it's a matter for
9	rest of the the next few years.	9	metallurgists to decide.
10	And if that pressure goes above the 300	10	MR. NICHOLSON: I'll ask Spencer to
	pressure, then they'll have to do some sort of	11	weigh in on this, too.
12	assessment if it meets 192.917	12	Ms. Daugherty, can you speak to that?
13	MR. NICHOLSON: So by running up to	13	LINDA DAUGHERTY: I can respond, or
14	their MAOP, they're not having to do that type of	14	perhaps Zach.
15	assessment?	15	ZACH BARRETT: 619 sets the maximum
16	DENNIS LEE: If they don't go above	16	level of operating pressure, and there's nothing
17	because they just reset their pressure at the	17	in the operations that prevents the company from
18	highest point again.	18	raising the pressure up to the maximum allowable
19	MR. NICHOLSON: Now, we're speaking of	19	operating pressure every five years.
20	192.917?	20	The integrity management rule under 917
21	DENNIS LEE: 917, yes.	21	just sets triggers for when the seams would be
22	MR. NICHOLSON: Okay. And I think 917		considered unstable, and it would trigger
	Page 527		Page 529
1	Page 527 talks about designer manufacturing threats; is	1	Page 529 assessment through the integrity management plan.
		1	-
	talks about designer manufacturing threats; is	2	assessment through the integrity management plan.
2	talks about designer manufacturing threats; is that correct?	2 3	assessment through the integrity management plan. So the raising the pressure to the
2 3	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW.	2 3 4	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting
2 3	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add?	2 3 4 5	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that
2 3 4 5	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson.	2 3 4 5	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested.
2 3 4 5 6	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much.	2 3 4 5 6 7	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the
2 3 4 5 6 7 8	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's	2 3 4 5 6 7 8	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested.
2 3 4 5 6 7 8 9	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come	2 3 4 5 6 7 8 9	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable.
2 3 4 5 6 7 8 9 10	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that.	2 3 4 5 6 7 8 9 10	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a
2 3 4 5 6 7 8 9 10 11	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that	2 3 4 5 6 7 8 9 10 11	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the
2 3 4 5 6 7 8 9 10 11 12	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation.	2 3 4 5 6 7 8 9 10 11 12	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the
2 3 4 5 6 7 8 9 10 11 12 13	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your	2 3 4 5 6 7 8 9 10 11 12 13	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable
2 3 4 5 6 7 8 9 10 11 12 13 14	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your interpretation?	2 3 4 5 6 7 8 9 10 11 12 13 14	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable and you have to assess those seams, either by
2 3 4 5 6 7 8 9 10 11 12 13 14 15	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your interpretation? MR. NICHOLSON: Can you explain the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable and you have to assess those seams, either by pressure test or by inline inspection tool,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your interpretation? MR. NICHOLSON: Can you explain the differences in opinion between yourself and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable and you have to assess those seams, either by pressure test or by inline inspection tool, depending on which would be the best technology to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your interpretation? MR. NICHOLSON: Can you explain the differences in opinion between yourself and PG&E oh, I'm sorry.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable and you have to assess those seams, either by pressure test or by inline inspection tool, depending on which would be the best technology to address those seams at the time.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your interpretation? MR. NICHOLSON: Can you explain the differences in opinion between yourself and PG&E oh, I'm sorry. RICHARD CLARK: Well, our interpretation	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable and you have to assess those seams, either by pressure test or by inline inspection tool, depending on which would be the best technology to address those seams at the time. MR. NICHOLSON: So again, by running up
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your interpretation? MR. NICHOLSON: Can you explain the differences in opinion between yourself and PG&E oh, I'm sorry. RICHARD CLARK: Well, our interpretation is essentially that that the five-year that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable and you have to assess those seams, either by pressure test or by inline inspection tool, depending on which would be the best technology to address those seams at the time. MR. NICHOLSON: So again, by running up to MAOP, they don't have to assess those threats?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your interpretation? MR. NICHOLSON: Can you explain the differences in opinion between yourself and PG&E oh, I'm sorry. RICHARD CLARK: Well, our interpretation is essentially that that the five-year that the five-year period started at the time that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable and you have to assess those seams, either by pressure test or by inline inspection tool, depending on which would be the best technology to address those seams at the time. MR. NICHOLSON: So again, by running up to MAOP, they don't have to assess those threats? If they run their line up to that highest pressure
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your interpretation? MR. NICHOLSON: Can you explain the differences in opinion between yourself and PG&E oh, I'm sorry. RICHARD CLARK: Well, our interpretation is essentially that that the five-year that the five-year period started at the time that the HC the high consequence area was was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable and you have to assess those seams, either by pressure test or by inline inspection tool, depending on which would be the best technology to address those seams at the time. MR. NICHOLSON: So again, by running up to MAOP, they don't have to assess those threats? If they run their line up to that highest pressure every five years, they're sure they'll never
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	talks about designer manufacturing threats; is that correct? DENNIS LEE: Yes. And also the ERW. MR. NICHOLSON: And ERW. Mr. Clark, you had something to add? RICHARD CLARK: Yes, Mr. Nicholson. Thank you very much. I want to stress that that's PG&E's interpretation of that statute. They did not come to us and ask us our opinion about that. So we're not in accord with that interpretation. CHAIRMAN HERSMAN: What is your interpretation? MR. NICHOLSON: Can you explain the differences in opinion between yourself and PG&E oh, I'm sorry. RICHARD CLARK: Well, our interpretation is essentially that that the five-year that the five-year period started at the time that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	assessment through the integrity management plan. So the raising the pressure to the five the five-year high MOP is about setting that trigger that, if you go over that, that triggers assessments for any seams on that pipeline that have not been pressure-tested. If there's been a pressure test on the seams, be it DSAW seams or be it ERW seams, we consider those stable. If there's a pipe that has not had a pressure test, then those seams, if you exceed the high five-year prior to the identification of the HCA pressure, then that makes those seams unstable and you have to assess those seams, either by pressure test or by inline inspection tool, depending on which would be the best technology to address those seams at the time. MR. NICHOLSON: So again, by running up to MAOP, they don't have to assess those threats? If they run their line up to that highest pressure

1	ZACH BARRETT: If that was the highest	1	internally?
2	pressure they saw in the five years prior to the	2	LINDA DAUGHERTY: You know, I think
	identification of the HCA, that would be correct.	3	that, yes, we would like to do that. I think we
4	MR. NICHOLSON: Continuing with		would like to acknowledge that there are various
5	yesterday's discussions, Ms. Daugherty, PG&E		ways that pipelines can be assessed: Hydrostatic
	management team mentioned some jointers that may		testing, internal inspection.
	have made up the short section of pups in the 1956	7	
	line 132 relocation.	· ·	tools and assessment methods may best suit the
9	I was just wondering, does PHMSA have a		type of threats and risks.
	concern over jointers or the use of jointers?	10	But definitely, we would like to see
11	LINDA DAUGHERTY: I am not aware of any		more lines piggable.
	data that we have on jointers. I think that's an	12	MR. NICHOLSON: And you mentioned
	area that we do need to do some further		
			pressure tests as one of those options.
	exploration.	14	Can you tell us the rationale behind the
15	It has not come up before, to my	1	PHMSA requirement for pressure and duration under
	knowledge, so we'll need to find out if it indeed		hydro tests versus what is called the grandfather
	is an issue and how it can be identified and	1	clause, which essentially requires no pressure
	addressed.		testing of the line?
19	MR. NICHOLSON: Mr. Clark, do you have	19	8
	anything to add?	1	tell you that when the rules were promulgated back
21	RICHARD CLARK: No. Thank you.		in 1968 and 1970 well, let me back up for a
22	MR. NICHOLSON: Mr. Barrett, going back	22	second.
	Page 531		Page 533
1	Page 531 to the five-year MAOP or the five-year pressure	1	Page 533 If you look at pipe miles statistics,
			-
2	to the five-year MAOP or the five-year pressure	2	If you look at pipe miles statistics,
2	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held?	2 3	If you look at pipe miles statistics, you'll note that about 50 percent or so of
2 3 4	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure	2 3	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s.
2 3 4 5	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It	2 3 4 5	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal
2 3 4 5 6	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't	2 3 4 5 6	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s.
2 3 4 5 6 7	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in	2 3 4 5 6	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new.
2 3 4 5 6 7	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA.	2 3 4 5 6 7 8	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they
2 3 4 5 6 7 8 9	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does	2 3 4 5 6 7 8 9	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records
2 3 4 5 6 7 8 9 10	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are	2 3 4 5 6 7 8 9	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could
2 3 4 5 6 7 8 9 10 11	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged?	2 3 4 5 6 7 8 9 10 11	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or
2 3 4 5 6 7 8 9 10 11 12	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some	2 3 4 5 6 7 8 9 10 11 12	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically
2 3 4 5 6 7 8 9 10 11 12 13	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some information for that. I'm trying to recall	2 3 4 5 6 7 8 9 10 11 12 13	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically test, they were looking at most disregard newer
2 3 4 5 6 7 8 9 10 11 12 13 14	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some information for that. I'm trying to recall whether it is submitted. I don't think we have	2 3 4 5 6 7 8 9 10 11 12 13 14	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically test, they were looking at most disregard newer lines.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some information for that. I'm trying to recall whether it is submitted. I don't think we have any specific data. We have more voluntary	2 3 4 5 6 7 8 9 10 11 12 13 14 15	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically test, they were looking at most disregard newer lines. So I think at that time, the decision
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some information for that. I'm trying to recall whether it is submitted. I don't think we have any specific data. We have more voluntary submitted information, and I don't know what those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically test, they were looking at most disregard newer lines. So I think at that time, the decision was made to accept the five-year interval prior to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some information for that. I'm trying to recall whether it is submitted. I don't think we have any specific data. We have more voluntary submitted information, and I don't know what those numbers are. I suspect that's your next question.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically test, they were looking at most disregard newer lines. So I think at that time, the decision was made to accept the five-year interval prior to the implementation of the rule, rather than
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some information for that. I'm trying to recall whether it is submitted. I don't think we have any specific data. We have more voluntary submitted information, and I don't know what those numbers are. I suspect that's your next question. I can check and see what information we	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically test, they were looking at most disregard newer lines. So I think at that time, the decision was made to accept the five-year interval prior to the implementation of the rule, rather than requiring fairly new lines to be hydrostatically
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some information for that. I'm trying to recall whether it is submitted. I don't think we have any specific data. We have more voluntary submitted information, and I don't know what those numbers are. I suspect that's your next question. I can check and see what information we have available and supply it to you later, for the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically test, they were looking at most disregard newer lines. So I think at that time, the decision was made to accept the five-year interval prior to the implementation of the rule, rather than requiring fairly new lines to be hydrostatically tested.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some information for that. I'm trying to recall whether it is submitted. I don't think we have any specific data. We have more voluntary submitted information, and I don't know what those numbers are. I suspect that's your next question. I can check and see what information we have available and supply it to you later, for the record.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically test, they were looking at most disregard newer lines. So I think at that time, the decision was made to accept the five-year interval prior to the implementation of the rule, rather than requiring fairly new lines to be hydrostatically tested. MR. NICHOLSON: And does PHMSA have a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	to the five-year MAOP or the five-year pressure increase, can you tell me how long the pressure has to be held? ZACH BARRETT: The regulation doesn't specify a timeframe for holding the pressure. It just says the operating pressure experienced in the previous five years of the identification of the HCA. MR. NICHOLSON: Ms. Daugherty, does PHMSA track number of miles of pipeline that are capable of being pigged? LINDA DAUGHERTY: We have some information for that. I'm trying to recall whether it is submitted. I don't think we have any specific data. We have more voluntary submitted information, and I don't know what those numbers are. I suspect that's your next question. I can check and see what information we have available and supply it to you later, for the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	If you look at pipe miles statistics, you'll note that about 50 percent or so of pipelines were constructed post-war, in the 1950s and 1960s. So when the regulations the federal pipeline safety regulations were developed in 1968 and 1970, those lines were fairly new. And so when they looked at whether they would require operators to have those records before they can use you know, where they could rely on those records to establish MAOP, or whether they had to go out and hydrostatically test, they were looking at most disregard newer lines. So I think at that time, the decision was made to accept the five-year interval prior to the implementation of the rule, rather than requiring fairly new lines to be hydrostatically tested.

Page 530

Page 532

PG	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 534		Page 536
1	LINDA DAUGHERTY: We believe it's a very	1	protocols is whether that's going to give you
2	good question. We are now a ways down the road,		the entire picture.
	and we need to revisit whether the grandfather	3	Do you talk to employees about the
	clause is still appropriate, or whether additional	4	implementation of these protocols?
	means need to be taken.	5	Do you talk to managers about their
6	MR. NICHOLSON: And Mr. Clark, I'll ask	6	review and assessment process of these protocols?
7	you: General order 112 came out in 1961. Did	7	DENNIS LEE: Oh, yes. We interview the
8	that require a hydro test of lines?	8	folks that are in charge of certain parts of their
9	RICHARD CLARK: Yes, it did.	9	plans.
10	MR. NICHOLSON: With that, I'll conclude	10	MR. TRAINOR: And are these the
11	and pass this on to Mr. Trainor. Thank you.	11	requirement to do interviews and this type of
12	MR. TRAINOR: Good afternoon, everyone.	12	thing, are those specified in the PHMSA protocols
13	Mr. Lee, I'd like to go back to a	13	for conducting an audit?
14	question posed to you at the beginning of the	14	DENNIS LEE: No, it's not in the plan,
15	panel.	15	but for them to tell us what's in the procedure,
16	You were describing for Mr. Nicholson	16	they can clearly explain who's in charge of the
17	how CPUC conducted its integrity management	17	plan, who does the revisions, where records are
18	audits pardon me and you mentioned the PHMSA	18	at.
19	protocol, and checking going through	19	MR. TRAINOR: Do you ask interview
20	checklists, files and records.	20	people, question them about how they execute these
21	And you also commented that you reviewed	21	protocols?
22	program procedures. And that's what I'd like you	22	DENNIS LEE: Oh, yes. Oh, yes.
	Page 535		Page 537
1	to expound upon.	1	MR. TRAINOR: I've got a lot of ground
2	How do you exactly review program	2	to cover here. I'd really like to spend more time
3	procedures? Do you simply look at the written	3	on it, but we are limited.
4	procedure? Do you make an effort to see them in	4	You'd also mentioned problems with the
5	action, or something else? Would you explain,	5	2010 audit involving a third party contractor, and
6	please?	6	you said there were concerns about that using
7	DENNIS LEE: Oh, we look at	7	that contract.
	basically, what's provided is a matrix that PG&E	8	Could you be more specific? What were
	would provide to us, or any utility company would	9	your specific concerns?
10	provide to us.	10	DENNIS LEE: Oh. Basically, PG&E hired
11	This matrix would include the protocol		a third party contractor in 2007 to look over
	in one column, and then the next column would		their ILI, or inline inspection process, and the
	include where in the procedures that they meet		program, and look at their ECDA process and
14	this protocol	14	program.
	this protocol.		
15	And so we go through their procedures to	15	And the third party consultant found
15 16	And so we go through their procedures to make sure everything that's written in their	15 16	some deficiencies, either in their plans or the
15 16 17	And so we go through their procedures to make sure everything that's written in their procedures are what's in the protocol.	15 16 17	some deficiencies, either in their plans or the way they ran their process.
15 16 17 18	And so we go through their procedures to make sure everything that's written in their procedures are what's in the protocol. And we look at the procedures, and then	15 16 17 18	some deficiencies, either in their plans or the way they ran their process. And we didn't have a the CPUC, we
15 16 17 18 19	And so we go through their procedures to make sure everything that's written in their procedures are what's in the protocol. And we look at the procedures, and then after that, we look at project files to make sure	15 16 17 18 19	some deficiencies, either in their plans or the way they ran their process. And we didn't have a the CPUC, we didn't have a clear picture of when they actually
15 16 17 18 19 20	And so we go through their procedures to make sure everything that's written in their procedures are what's in the protocol. And we look at the procedures, and then after that, we look at project files to make sure that they are following those procedures.	15 16 17 18 19 20	some deficiencies, either in their plans or the way they ran their process. And we didn't have a the CPUC, we didn't have a clear picture of when they actually implemented these deficiencies that were found by
15 16 17 18 19 20 21	And so we go through their procedures to make sure everything that's written in their procedures are what's in the protocol. And we look at the procedures, and then after that, we look at project files to make sure	15 16 17 18 19 20	some deficiencies, either in their plans or the way they ran their process. And we didn't have a the CPUC, we didn't have a clear picture of when they actually

10	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2		March 2, 201
	Page 538		Page 540
1	specific deficiencies they noted?	1	dealing with state programs.
2	DENNIS LEE: Basically, it's	2	Would you explain the process that PHMSA
3	strengthening their procedures, including certain	3	has, whatever process you have, towards evaluating
	things that should have been in the procedures. I		the effectiveness of state programs? Would you
	don't recall exactly what it was.	1	run through that process for us?
6	MR. TRAINOR: All right. We may ask the	6	ZACH BARRETT: Sure. Can you hear me
7	commission to send us any correspondence that	7	now?
	relates to that audit.	8	Yeah, thanks.
9	DENNIS LEE: Sure. I can send you to	9	We have an evaluation form, evaluation
10	two internal audits that were conducted.	10	program that we have developed through the years
11	MR. TRAINOR: Ms. Halligan, you had		from working with stakeholders, such as the PHMSA,
12	you talked about the frequency of conducting	12	through the years. There's a ground location
13	audits on transmission pipeline systems, and you	13	committee that helps populate the questions on
	stated that you'd like to do them more frequently,		what a pipeline safety a good pipeline state
	but haven't been able to.	1	pipeline safety program, or a pipeline safety
16	Would you explain that remark, please?	16	program, should have.
17	JULIE HALLIGAN: Well, certainly since	17	We also they're on that evaluation
18	the incident in San Bruno, we'd like to audit the	18	form, there's actually four recommendations from
19	program much more frequently. Every year, if we	19	NTSB dealing with cast iron and dealing with
20	could.	20	emergency response.
21	As you know, we did an initial audit	21	So we take into consideration from all
22	along with PHMSA in 2005, and then we got back to	22	of our stakeholders what what should be in that
	Page 539		Page 541
1	PG&E's integrity management program in 2010.	1	form.
2	Those are the only two we've done.		
	Those the only two we ve done.	2	Annually, my staff goes out to each
3	We haven't yet concluded our 2010 audit,		Annually, my staff goes out to each state and does an onsite an evaluation, running
	-	3	
4	We haven't yet concluded our 2010 audit,	3 4	state and does an onsite an evaluation, running
4 5	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings,	3 4 5	state and does an onsite an evaluation, running through that form to check inspection procedures,
4 5 6	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San	3 4 5	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures,
4 5 6 7	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been	3 4 5 6 7	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts.
4 5 6 7	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to	3 4 5 6 7 8	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection
4 5 7 8 9	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction.	3 4 5 6 7 8	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon
4 5 7 8 9	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any	3 4 5 6 7 8 9 10 11	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a
4 5 7 8 9 10	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more	3 4 5 6 7 8 9 10 11 12	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline
4 5 7 8 9 10 11	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding?	3 4 5 6 7 8 9 10 11 12 13	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit
4 5 7 8 9 10 11	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding? JULIE HALLIGAN: Not that I'm aware of.	3 4 5 6 7 8 9 10 11 12 13 14	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit of a pipeline of the pipeline during that
4 5 7 8 9 10 11 12 13	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding? JULIE HALLIGAN: Not that I'm aware of. MR. TRAINOR: Are there	3 4 5 6 7 8 9 10 11 12 13 14	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit of a pipeline of the pipeline during that during their program evaluation.
4 5 7 8 9 10 11 12 13 14	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding? JULIE HALLIGAN: Not that I'm aware of. MR. TRAINOR: Are there JULIE HALLIGAN: No, we typically you	3 4 5 6 7 8 9 10 11 12 13 14 15 16	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit of a pipeline of the pipeline during that during their program evaluation. We also review information that's
4 5 6 7 8 9 10 11 12 13 14 15	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding? JULIE HALLIGAN: Not that I'm aware of. MR. TRAINOR: Are there JULIE HALLIGAN: No, we typically you know, the staff works very hard when they do an	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit of a pipeline of the pipeline during that during their program evaluation. We also review information that's provided to us by states dealing with their safety
4 5 7 8 9 10 11 12 13 14 15 16 17 18	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding? JULIE HALLIGAN: Not that I'm aware of. MR. TRAINOR: Are there JULIE HALLIGAN: No, we typically you know, the staff works very hard when they do an audit to to close out any findings, and make	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit of a pipeline of the pipeline during that during their program evaluation. We also review information that's provided to us by states dealing with their safety authority, the amount of jurisdiction they have,
4 5 7 8 9 10 11 12 13 14 15 16 17 18 19	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding? JULIE HALLIGAN: Not that I'm aware of. MR. TRAINOR: Are there JULIE HALLIGAN: No, we typically you know, the staff works very hard when they do an audit to to close out any findings, and make sure that any violations, in particular, are	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit of a pipeline of the pipeline during that during their program evaluation. We also review information that's provided to us by states dealing with their safety authority, the amount of jurisdiction they have, the amount of recommended person days that they
4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding? JULIE HALLIGAN: Not that I'm aware of. MR. TRAINOR: Are there JULIE HALLIGAN: No, we typically you know, the staff works very hard when they do an audit to to close out any findings, and make sure that any violations, in particular, are resolved before they close out that audit.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit of a pipeline of the pipeline during that during their program evaluation. We also review information that's provided to us by states dealing with their safety authority, the amount of jurisdiction they have, the amount of recommended person days that they are able to accomplish during inspections.
4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding? JULIE HALLIGAN: Not that I'm aware of. MR. TRAINOR: Are there JULIE HALLIGAN: No, we typically you know, the staff works very hard when they do an audit to to close out any findings, and make sure that any violations, in particular, are resolved before they close out that audit. MR. TRAINOR: Okay.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit of a pipeline of the pipeline during that during their program evaluation. We also review information that's provided to us by states dealing with their safety authority, the amount of jurisdiction they have, the amount of recommended person days that they are able to accomplish during inspections. Their ability to adopt our pipeline
4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20	We haven't yet concluded our 2010 audit, in the sense that we've given PG&E our findings, but because of the intervening situation in San Bruno and this investigation, we haven't yet been able to dedicate staff to working with PG&E to resolve those findings to our satisfaction. So, while we'd like to be able to do more audits, we haven't been able to. MR. TRAINOR: Are there any discrepancies from previous audits that are more than two years old that remain outstanding? JULIE HALLIGAN: Not that I'm aware of. MR. TRAINOR: Are there JULIE HALLIGAN: No, we typically you know, the staff works very hard when they do an audit to to close out any findings, and make sure that any violations, in particular, are resolved before they close out that audit.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	state and does an onsite an evaluation, running through that form to check inspection procedures, inspector training, investigation procedures, damage prevention efforts. Their alignment with PHMSA's inspection programs and initiatives, enforcement call upon enforcement issues and actions. And also, they do an onsite field investigation, where they actually go out with a pipeline safety inspector and review that pipeline safety inspector performing a portion of an audit of a pipeline of the pipeline during that during their program evaluation. We also review information that's provided to us by states dealing with their safety authority, the amount of jurisdiction they have, the amount of recommended person days that they are able to accomplish during inspections.

	Page 542		Page 544
	-		-
1	we we include in that scoring, based on that	1	total aggregate score?
2	score and the availability of the funding that we	2	ZACH BARRETT: I believe it's 90.
3	have, we basically distribute the pipeline safety	3	MR. TRAINOR: And what was the maximum
4	grant to states, you know, based on those scores	4	total aggregate score?
5	and those performance evaluations of how well that	5	ZACH BARRETT: 100.
	they're doing.	6	MR. TRAINOR: 100.
7	MR. TRAINOR: Okay. And I believe the	7	
· · ·	PUC responded that their they received scores	·	program, is that just the for the authority
	of 100 from PHMSA in past years?	1	delegated to them to enforce federal pipeline
10	ZACH BARRETT: I think Rich was		
		10	• • • • •
	responding to the score evaluation, the score. I		example?
	think they were 99.5 in the last evaluation that	12	Does it does your assessment cover
	we did in '99 and the year before. In prior		interstate pipeline systems, their program for
	years, they were at 100. The certification piece	14	intrastate pipeline systems?
15	is tied in with the score, so there's a combined	15	ZACH BARRETT: Interstate pipeline
16	score.	16	systems?
17	They don't have full jurisdiction	17	MR. TRAINOR: Intra.
18	authority over municipals, some master meters,	18	ZACH BARRETT: Yes, sir, our program
19	some private operators, so they lose points for	19	reviews their inspection and enforcement over
20	that.	20	intrastate pipelines, which are included in
21	Also, their inspection person years have		distribution systems often.
22	not met the minimum recommended standard for a	22	MR. TRAINOR: Okay. Thank you.
	Page 543		
	Fage 040		Page 545
1		1	
	year or so, and so they've lost points for that	1	Going back to the scoring system again,
2	year or so, and so they've lost points for that also.	2	Going back to the scoring system again, what's been the lowest score ever given to any
2 3	year or so, and so they've lost points for that also. So I believe their combined score is	2 3	Going back to the scoring system again, what's been the lowest score ever given to any state program?
2 3 4	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that.	2 3 4	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some
2 3 4 5	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare	2 3 4 5	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that.
2 3 4 5 6	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than	2 3 4 5 6	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure.
2 3 4 5 6	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average?	2 3 4 5 6 7	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for
2 3 4 5 6 7 8	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would	2 3 4 5 6 7	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that?
2 3 4 5 6 7 8 9	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection	2 3 4 5 6 7 8 9	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything
2 3 4 5 6 7 8 9 10	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that	2 3 4 5 6 7 8 9	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50.
2 3 4 5 6 7 8 9 10	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection	2 3 4 5 6 7 8 9	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything
2 3 4 5 6 7 8 9 10 11	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that	2 3 4 5 6 7 8 9 10	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50.
2 3 4 5 6 7 8 9 10 11	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and	2 3 4 5 6 7 8 9 10 11 12	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay.
2 3 4 5 6 7 8 9 10 11 12 13	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and investigations.	2 3 4 5 6 7 8 9 10 11 12 13	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay. ZACH BARRETT: To kind of expand on
2 3 4 5 6 7 8 9 10 11 12 13 14	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and investigations. You know, with most programs where	2 3 4 5 6 7 8 9 10 11 12 13 14	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay. ZACH BARRETT: To kind of expand on that, we've been evaluating states for pipeline
2 3 4 5 6 7 8 9 10 11 12 13 14 15	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and investigations. You know, with most programs where they're taking the hits is because of the jurisdictional status. They the legislation	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay. ZACH BARRETT: To kind of expand on that, we've been evaluating states for pipeline safety since 1971, so we've been trying to obviously, you know, our goal is to get states to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and investigations. You know, with most programs where they're taking the hits is because of the jurisdictional status. They the legislation hasn't given them authority over all pipelines	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay. ZACH BARRETT: To kind of expand on that, we've been evaluating states for pipeline safety since 1971, so we've been trying to obviously, you know, our goal is to get states to score as high as possible, because that means that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and investigations. You know, with most programs where they're taking the hits is because of the jurisdictional status. They the legislation hasn't given them authority over all pipelines that are there, and for not also putting	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay. ZACH BARRETT: To kind of expand on that, we've been evaluating states for pipeline safety since 1971, so we've been trying to obviously, you know, our goal is to get states to score as high as possible, because that means that they're meeting they're aligning their programs
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and investigations. You know, with most programs where they're taking the hits is because of the jurisdictional status. They the legislation hasn't given them authority over all pipelines that are there, and for not also putting them that's putting them below average in that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay. ZACH BARRETT: To kind of expand on that, we've been evaluating states for pipeline safety since 1971, so we've been trying to obviously, you know, our goal is to get states to score as high as possible, because that means that they're meeting they're aligning their programs with ours, and they're meeting the mandates that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and investigations. You know, with most programs where they're taking the hits is because of the jurisdictional status. They the legislation hasn't given them authority over all pipelines that are there, and for not also putting them that's putting them below average in that 90 score their total aggregate score. But	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay. ZACH BARRETT: To kind of expand on that, we've been evaluating states for pipeline safety since 1971, so we've been trying to obviously, you know, our goal is to get states to score as high as possible, because that means that they're meeting they're aligning their programs with ours, and they're meeting the mandates that are out there.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and investigations. You know, with most programs where they're taking the hits is because of the jurisdictional status. They the legislation hasn't given them authority over all pipelines that are there, and for not also putting them that's putting them below average in that 90 score their total aggregate score. But that's reflective of not being able to get	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay. ZACH BARRETT: To kind of expand on that, we've been evaluating states for pipeline safety since 1971, so we've been trying to obviously, you know, our goal is to get states to score as high as possible, because that means that they're meeting they're aligning their programs with ours, and they're meeting the mandates that are out there. So most pipeline safety scores are in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	year or so, and so they've lost points for that also. So I believe their combined score is somewhere around 90 in that. MR. TRAINOR: And how does that compare to other state programs? Is it better than average? Below average? ZACH BARRETT: It's you know, I would say that the California PUC has a good inspection program; they have good, qualified engineers that are capable of doing inspections and investigations. You know, with most programs where they're taking the hits is because of the jurisdictional status. They the legislation hasn't given them authority over all pipelines that are there, and for not also putting them that's putting them below average in that 90 score their total aggregate score. But	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Going back to the scoring system again, what's been the lowest score ever given to any state program? ZACH BARRETT: I'd have to do some research for you on that and get back to that. I'm not sure. MR. TRAINOR: Would it be below 50, for example? Or above that? ZACH BARRETT: I haven't seen anything below 50. MR. TRAINOR: Okay. ZACH BARRETT: To kind of expand on that, we've been evaluating states for pipeline safety since 1971, so we've been trying to obviously, you know, our goal is to get states to score as high as possible, because that means that they're meeting they're aligning their programs with ours, and they're meeting the mandates that are out there.

PG	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 546		Page 548
1	as in your position facing the State Utilities	1	comments about the state programs, that funding is
	Commission in terms of their being able to develop	1	a is a considerable concern for the states.
	and implement effective pipeline safety programs?	3	Consistent funding over the years is a
4	ZACH BARRETT: I think resources are	4	problem, because each state has had economic
5	always an issue, especially with the economic	5	downturns. The funding levels have been have
6	conditions that we're dealing with right now.	6	been, over the last five years, anywhere from 40
7	You know, many states have had to	7	percent to 64 percent. It's hard for state
8	undergo furloughs, state inspectors. Some states	8	programs to budget and go out and say, Okay, over
	are having trouble holding onto their staff, their	1	the next three years I know I'm going to get a
10	current staff.		certain amount of grant from PHMSA; I'm going to
11	We suspended a management of effort	1	be able to go out and hire two or three additional
12	clause that allowed us to give states more	12	engineers.
13	pipeline safety funding to help shore up states,	13	Because the funding levels are bouncing
	hopefully to that governments would recognize		up and down, it's very difficult for the states to
	that these are positions that we're paying for	15	plan how they're going to spend this money in the
16	through the grant, and that they would not		long run.
17	furlough those employees or keep those furlough	17	So that's a a difficulty that the
18	employees, you know, on the clock.		states are looking at.
19	So I believe that's a challenge.	19	MR. TRAINOR: Mr. Clark, I would ask you
20	Also, in some of our states where	20	1
21	they're where they're producing states, where		California.
22	the industry is doing well and where our engineers	22	What are your greatest challenges with
	Dogo 547	-	
	Page 547		Page 549
1	are getting up to speed, and they have, you know,	1	Page 549 respect to your pipeline state program?
	-	1	
2	are getting up to speed, and they have, you know,	2	respect to your pipeline state program?
2 3 4	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their	2 3	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's
2 3 4 5	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge,	2 3 4	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose
2 3 4 5 6	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety	2 3 4 5 6	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that
2 3 4 5 6 7	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have	2 3 4 5 6 7	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state
2 3 4 5 6 7	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience.	2 3 4 5 6 7 8	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past,
2 3 4 5 6 7	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main	2 3 4 5 6 7 8 9	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that
2 3 4 5 6 7 8	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face.	2 3 4 5 6 7 8 9 10	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know,
2 3 4 5 6 7 8 9 10 11	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn.	2 3 4 5 6 7 8 9 10	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the
2 3 4 5 6 7 8 9 10 11 12	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs.	2 3 4 5 6 7 8 9 10 11 12	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very
2 3 4 5 6 7 8 9 10 11 12 13	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs. Feedback from sessions like this will help us go	2 3 4 5 6 7 8 9 10 11 12 13	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very deeply and broadly at what it is that they're
2 3 4 5 6 7 8 9 10 11 12 13 14	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs. Feedback from sessions like this will help us go back and take things to to look at for an	2 3 4 5 6 7 8 9 10 11 12 13 14	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very deeply and broadly at what it is that they're doing with their systems, when those systems are
2 3 4 5 6 7 8 9 10 11 12 13 14 15	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs. Feedback from sessions like this will help us go back and take things to to look at for an evaluation form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very deeply and broadly at what it is that they're doing with their systems, when those systems are first buried under the ground, so no one sees
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs. Feedback from sessions like this will help us go back and take things to to look at for an evaluation form. MR. TRAINOR: Mr. Metro, I would ask you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very deeply and broadly at what it is that they're doing with their systems, when those systems are first buried under the ground, so no one sees them; they don't even know that they're running
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs. Feedback from sessions like this will help us go back and take things to to look at for an evaluation form. MR. TRAINOR: Mr. Metro, I would ask you the same question: What are the greatest	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very deeply and broadly at what it is that they're doing with their systems, when those systems are first buried under the ground, so no one sees them; they don't even know that they're running through the neighborhoods.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs. Feedback from sessions like this will help us go back and take things to to look at for an evaluation form. MR. TRAINOR: Mr. Metro, I would ask you the same question: What are the greatest challenges, in your mind, facing the state Public	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very deeply and broadly at what it is that they're doing with their systems, when those systems are first buried under the ground, so no one sees them; they don't even know that they're running through the neighborhoods. And number two, they have a very high
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs. Feedback from sessions like this will help us go back and take things to to look at for an evaluation form. MR. TRAINOR: Mr. Metro, I would ask you the same question: What are the greatest challenges, in your mind, facing the state Public Utility Commissions?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very deeply and broadly at what it is that they're doing with their systems, when those systems are first buried under the ground, so no one sees them; they don't even know that they're running through the neighborhoods. And number two, they have a very high safety record.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs. Feedback from sessions like this will help us go back and take things to to look at for an evaluation form. MR. TRAINOR: Mr. Metro, I would ask you the same question: What are the greatest challenges, in your mind, facing the state Public Utility Commissions? PAUL METRO: I would echo Mr I would	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very deeply and broadly at what it is that they're doing with their systems, when those systems are first buried under the ground, so no one sees them; they don't even know that they're running through the neighborhoods. And number two, they have a very high safety record. It's very difficult to convince folks
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	are getting up to speed, and they have, you know, good backgrounds and good talents, that the industry is robbing, basically cultivating that good talent to go to work for them, because their salaries are higher. So that's also a challenge, I think, to hold good state pipeline safety employees that are well-trained, that have experience, years of experience. I think those are two of the main challenges that that we face. Obviously, we're continuing to learn. We're continuing to try to improve state programs. Feedback from sessions like this will help us go back and take things to to look at for an evaluation form. MR. TRAINOR: Mr. Metro, I would ask you the same question: What are the greatest challenges, in your mind, facing the state Public Utility Commissions?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	respect to your pipeline state program? RICHARD CLARK: Again, resources. It's a resource issue in an industry that's whose whose history has been relatively safe. Very safe, actually. And to be able to convince folks that in competition for positions across state government, at this point in time and in the past, in terms of economic conditions, that that folks are suffering, that it's, you know, important to have inspectors be sure that the utilities know what's in the ground and look very deeply and broadly at what it is that they're doing with their systems, when those systems are first buried under the ground, so no one sees them; they don't even know that they're running through the neighborhoods. And number two, they have a very high safety record.

	&E Gas Transmission Pipeline - DAY 2		March 2, 201
	Page 550		Page 552
1	environment I mean, we're states as well as	1	inspection efforts.
	the federal government are all in a very severe	2	LINDA DAUGHERTY: I would agree with
	budget predicament, obviously.	3	everything that's been said.
4	I would pose the question to Mr. Metro,	4	I would also mention I was surprised
	Mr. Barrett, Ms. Daugherty and Mr. Clark again:	5	it didn't come up when we were talking about
	What types of things could operators and		constraints and challenges. We have rolled out an
	regulators do to make the best of the situation?		incredible number of new regulations over the last
8	And I'll give you one example.		decade. Control room management, distribution
9	Accepting the fact that increased		integrity management. We have operator
	funding is probably a remote possibility, are you		qualifications.
	examining more effective uses of your resources?	11	States with small staffs have to absorb
12	And if you are, explain how that might		these new regulations, so it takes an intense
	be done.		amount of training. So it's a burden. So
14	Mr. Metro?		bringing all the states up to speed is also a
15	PAUL METRO: Yes. In Pennsylvania,		challenge.
	about five years ago we realized that we were	15	One of the ways that we are trying to
17	going to have funding issues and we didn't have		mitigate that is to leverage each other's
	the resources that we needed to do the job the way		resources and skills.
	we wanted to do it. So we implemented a risk	19	You had asked, you know, ways we can
	assessment program.		overcome, without more money, funding the states.
20	But we went out and mined our data that		Without growing those programs, how can we achieve
	we had and said, okay, where can we put the		good safety results?
	we had and said, okay, where can we put the	22	good safety results?
	Page 551		Page 553
1	Page 551 resources that's going to give us the biggest bang	1	Page 553 And one of the ways we can do that is
			-
2	resources that's going to give us the biggest bang	2	And one of the ways we can do that is
2	resources that's going to give us the biggest bang for the buck and reduce reportable incidents,	2 3	And one of the ways we can do that is utilizing our data, identifying the highest risks,
2 3 4	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance?	2 3 4	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we
2 3 4 5	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen	2 3 4 5	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator
2 3 4 5 6	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the	2 3 4 5	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority
2 3 4 5 6 7	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've	2 3 4 5 6 7	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results.
2 3 4 5 6 7 8	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues	2 3 4 5 6 7	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and
2 3 4 5 6 7 8	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and	2 3 4 5 6 7 8 9	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge.
2 3 4 5 6 7 8 9 10	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth.	2 3 4 5 6 7 8 9	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work
2 3 4 5 6 7 8 9 10 11	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment	2 3 4 5 6 7 8 9 10 11	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we
2 3 4 5 6 7 8 9 10 11	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this	2 3 4 5 6 7 8 9 10 11 12	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we
2 3 4 5 6 7 8 9 10 11 12 13	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this point.	2 3 4 5 6 7 8 9 10 11 12 13	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we had these issues years ago, and we have made an
2 3 4 5 6 7 8 9 10 11 12 13	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this point. ZACH BARRETT: I would agree with Mr. Metro. In our evaluation form, we've been	2 3 4 5 6 7 8 9 10 11 12 13 14	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we had these issues years ago, and we have made an effort to share information, to improve our
2 3 4 5 6 7 8 9 10 11 12 13 14	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this point. ZACH BARRETT: I would agree with Mr. Metro. In our evaluation form, we've been trying to drive states towards risk assessment of	2 3 4 5 6 7 8 9 10 11 12 13 14 15	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we had these issues years ago, and we have made an effort to share information, to improve our information exchange, and we're not there yet. We
2 3 4 5 6 7 8 9 10 11 12 13 14 15	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this point. ZACH BARRETT: I would agree with Mr. Metro. In our evaluation form, we've been trying to drive states towards risk assessment of	2 3 4 5 6 7 8 9 10 11 12 13 14 15	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we had these issues years ago, and we have made an effort to share information, to improve our information exchange, and we're not there yet. We have a lot of work to do. But we are trying to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this point. ZACH BARRETT: I would agree with Mr. Metro. In our evaluation form, we've been trying to drive states towards risk assessment of their their operators to inspect. We're also working to share data better	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we had these issues years ago, and we have made an effort to share information, to improve our information exchange, and we're not there yet. We have a lot of work to do. But we are trying to help each other as partners.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this point. ZACH BARRETT: I would agree with Mr. Metro. In our evaluation form, we've been trying to drive states towards risk assessment of their their operators to inspect. We're also working to share data better amongst ourselves in the states, and to learn more	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we had these issues years ago, and we have made an effort to share information, to improve our information exchange, and we're not there yet. We have a lot of work to do. But we are trying to help each other as partners. We are we serve the public. We work
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this point. ZACH BARRETT: I would agree with Mr. Metro. In our evaluation form, we've been trying to drive states towards risk assessment of their their operators to inspect. We're also working to share data better amongst ourselves in the states, and to learn more	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we had these issues years ago, and we have made an effort to share information, to improve our information exchange, and we're not there yet. We have a lot of work to do. But we are trying to help each other as partners. We are we serve the public. We work together to protect the public as best as we can,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this point. ZACH BARRETT: I would agree with Mr. Metro. In our evaluation form, we've been trying to drive states towards risk assessment of their their operators to inspect. We're also working to share data better amongst ourselves in the states, and to learn more from the data that we have.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we had these issues years ago, and we have made an effort to share information, to improve our information exchange, and we're not there yet. We have a lot of work to do. But we are trying to help each other as partners. We are we serve the public. We work together to protect the public as best as we can, and by helping each other, we reach that goal.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	resources that's going to give us the biggest bang for the buck and reduce reportable incidents, reduce non-compliance? And we implemented that, and we've seen some very good results of that. We've seen the number of reportable incidents decrease; we've seen the number of number of non-compliance issues initially increase and some have decreased, and that number's gone back and forth. But we believe that the risk assessment program for inspections is the way to go at this point. ZACH BARRETT: I would agree with Mr. Metro. In our evaluation form, we've been trying to drive states towards risk assessment of their their operators to inspect. We're also working to share data better amongst ourselves in the states, and to learn more from the data that we have. As Paul said, we're trying to, you know,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And one of the ways we can do that is utilizing our data, identifying the highest risks, helping each other out, identifying what we what the feds do and inspection of an operator that a state may also have regulatory authority over. Maybe they can use our results. There are ways that we can enhance and improve safety. But it is a challenge. MR. TRAINOR: Has any of that work commenced at this point? LINDA DAUGHERTY: Yes. We recognized we had these issues years ago, and we have made an effort to share information, to improve our information exchange, and we're not there yet. We have a lot of work to do. But we are trying to help each other as partners. We are we serve the public. We work together to protect the public as best as we can, and by helping each other, we reach that goal. MR. TRAINOR: Thank you.

гu	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 554		Page 556
1	multifaceted approach.	1	MR. TRAINOR: Thank you, Mr. Clark.
2	First of all, we're not giving up on the	2	
3		3	give the balance of time back to Mr. Chhatre and
4	order to ensure a higher level of safety in the	4	
	gas systems. We're having robust discussions	5	RAVI CHHATRE: Thanks.
	across the state in that regard.	6	All questions would are for
7	But we're also we've undertaken a	7	Ms. Daugherty and Mr. Lee.
8	rule-making at the commission, where we're taking	8	Yesterday PG&E told us that information
9	a look essentially, at the rate-making aspects;	9	is not available yet, but it is known that they
10	we're taking a look at the prescriptive rules; and	10	are taking the, quote/unquote, "most conservative
11	we're also taking a look at performance-based	11	values."
12	rate a performance-based safety approach, so	12	My question to both of you regulators
13	that we can have a comprehensive system, if you	13	is: Yourself, do you know, what is the most
14	will, that will more adequately ensure a higher	14	conservative value?
15	level of safety amongst the gas operators in the	15	Start with you, Mr. Lee.
16	State of California.	16	DENNIS LEE: So can you restate that,
17	Another aspect of what we're doing is	17	please?
18	we've undertaken a rule-making to determine	18	RAVI CHHATRE: Yesterday, during the
19	whether or not the mobile home parks where we	19	interviews, PG&E told us that on their on their
20	spend a considerable amount of time doing	20	sheets, where the information is not available or
21	inspections, whether or not those master-metered	21	is unknown, that they used the, quote/unquote,
22	mobile home parks should be, in fact, absorbed by	22	most conservative value.
-			
	Page 555		Page 557
	the utilities instead, so that the utilities	1	And my question is: If the operators
2	the utilities instead, so that the utilities are are responsible for the safety of those	2	And my question is: If the operators don't know what kind of pipe they have on the
2	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular	2 3	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value?
2 3 4	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a	2 3 4	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was
2 3 4 5	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to	2 3 4 5	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's
2 3 4 5 6	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine	2 3 4 5 6	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would
2 3 4 5 6 7	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards.	2 3 4 5 6 7	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change.
2 3 4 5 6 7 8	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however,	2 3 4 5 6 7 8	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you
2 3 4 5 6 7 8 9	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity	2 3 4 5 6 7 8 9	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask
2 3 4 5 6 7 8 9 10	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management,	2 3 4 5 6 7 8 9	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty.
2 3 4 5 6 7 8 9 10 11	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a	2 3 4 5 6 7 8 9 10 11	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a
2 3 4 5 6 7 8 9 10 11 12	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach.	2 3 4 5 6 7 8 9 10 11 12	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're
2 3 4 5 6 7 8 9 10 11 12 13	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach. We're also in terms of sharing data,	2 3 4 5 6 7 8 9 10 11 12 13	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're dealing with, the general thing that you're going
2 3 4 5 6 7 8 9 10 11 12 13 14	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach. We're also in terms of sharing data, we have very good information in our databases.	2 3 4 5 6 7 8 9 10 11 12 13 14	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're dealing with, the general thing that you're going to be concerned with is kind of obvious. If you
2 3 4 5 6 7 8 9 10 11 12 13 14 15	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach. We're also in terms of sharing data,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're dealing with, the general thing that you're going
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach. We're also in terms of sharing data, we have very good information in our databases. The database is built by our engineers, who also do the inspective work. And we're we're	2 3 4 5 6 7 8 9 10 11 12 13 14 15	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're dealing with, the general thing that you're going to be concerned with is kind of obvious. If you don't know what you have, you must choose the most conservative value.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach. We're also in terms of sharing data, we have very good information in our databases. The database is built by our engineers, who also	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're dealing with, the general thing that you're going to be concerned with is kind of obvious. If you don't know what you have, you must choose the most
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach. We're also in terms of sharing data, we have very good information in our databases. The database is built by our engineers, who also do the inspective work. And we're we're looking at ways that we can bring that data	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're dealing with, the general thing that you're going to be concerned with is kind of obvious. If you don't know what you have, you must choose the most conservative value. Now, having said that, identifying what
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach. We're also in terms of sharing data, we have very good information in our databases. The database is built by our engineers, who also do the inspective work. And we're we're looking at ways that we can bring that data together to be able to to trend going out,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're dealing with, the general thing that you're going to be concerned with is kind of obvious. If you don't know what you have, you must choose the most conservative value. Now, having said that, identifying what that actually means would be challenging.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach. We're also in terms of sharing data, we have very good information in our databases. The database is built by our engineers, who also do the inspective work. And we're we're looking at ways that we can bring that data together to be able to to trend going out, looking into the future.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're dealing with, the general thing that you're going to be concerned with is kind of obvious. If you don't know what you have, you must choose the most conservative value. Now, having said that, identifying what that actually means would be challenging. You might look at what available
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the utilities instead, so that the utilities are are responsible for the safety of those systems, rather than each owner of each particular master-metered mobile home park having to have a trained and qualified operator, and having to know how the system works, and the whole nine yards. It is a huge challenge for us, however, to implement the distribution integrity management, the transmission integrity management, and all that sort of thing. But we are taking a comprehensive approach. We're also in terms of sharing data, we have very good information in our databases. The database is built by our engineers, who also do the inspective work. And we're we're looking at ways that we can bring that data together to be able to to trend going out, looking into the future. Recently we've begun trending going out	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	And my question is: If the operators don't know what kind of pipe they have on the ground, what is the most conservative value? DENNIS LEE: Yeah, that that was actually before the San Bruno event. It's different now. It's different now. That would change. RAVI CHHATRE: I don't believe you answered my question, but I'm going to ask Ms. Daugherty. LINDA DAUGHERTY: In a situation where a pipeline operator does not know what they're dealing with, the general thing that you're going to be concerned with is kind of obvious. If you don't know what you have, you must choose the most conservative value. Now, having said that, identifying what that actually means would be challenging. You might look at what available information is out there, what it might likely

	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 558		Page 560
1	There's nothing in the regulations that	1	pipe, and I do not know I have based in them, I do
2	I am aware of that would specifically state how		not know I have breaks in them, and I do not know
	you would get to that.	1	what material I have, to me, the most conservative
4	We would expect an operator to provide a		value is probably the lowest-grade steel.
5	technical engineering justification on how they	5	That comes in with the lowest seam
	arrived at that decision.	6	factor, that comes in, with all the lowest values.
7	So it's not a simple thing of saying,	1	Has that been demonstrated in line 132's case?
8	well, we're just going to assume we have this	8	DENNIS LEE: No, I don't believe so.
	value.	9	RAVI CHHATRE: That's all for me. Thank
10	No, you must provide why you arrived at	10	you much.
11	that value.	11	CHAIRMAN HERSMAN: Thank you very much,
12	RAVI CHHATRE: I'm going to stop	12	Mr. Chhatre. We're going to take a 15-minute
13	pursuing, but I will say that I haven't gotten an	13	
	answer from either of you.	14	(RECESS TAKEN FROM 2:30 TO 2:47 P.M.)
15	My question is: If someone does not	15	CHAIRMAN HERSMAN: Please take your
16	know what they have in the groundI'll repeat my	16	seats and we will continue. We'll come down to
17	question again what is the most conservative	17	the fourth witness panel and the city of San
	value? And how long can they keep doing that?	1	Bruno.
19	LINDA DAUGHERTY: I'm not sure how to	19	CONNIE JACKS: Thank you, Madam Chair.
20	answer that question. If someone does not know	20	
	what they have in the ground, then they have to	21	answer.
22	figure out a way of determining what they have in	22	Yesterday a member of the PG&E witness
	Page 559		Page 561
1	Page 559 the ground based on good technical engineering	1	Page 561 panel acknowledged that, in essence, age does
		1	-
	the ground based on good technical engineering	1	panel acknowledged that, in essence, age does
2 3	the ground based on good technical engineering justification.	2 3	panel acknowledged that, in essence, age does matter when it comes to pipelines.
2 3 4	the ground based on good technical engineering justification. Maybe they dig it up and examine it;	2 3 4	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline
2 3 4	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow	2 3 4 5	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity
2 3 4 5 6	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be.	2 3 4 5 6 7	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation
2 3 4 5 6 7 8	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states	2 3 4 5 6 7 8	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the
2 3 4 5 6 7 8	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that?	2 3 4 5 6 7 8 9	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were
2 3 4 5 6 7 8	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct.	2 3 4 5 6 7 8 9 10	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs
2 3 4 5 6 7 8 9 10 11	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the	2 3 4 5 6 7 8 9 10	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation.
2 3 4 5 6 7 8 9 10 11 12	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to	2 3 4 5 6 7 8 9 10 11 12	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an
2 3 4 5 6 7 8 9 10 11 12 13	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to exist? I mean, the way I look at PG&E line 132,	2 3 4 5 6 7 8 9 10 11 12 13	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an operator looks at its records, it has the
2 3 4 5 6 7 8 9 10 11 12 13 14	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to exist? I mean, the way I look at PG&E line 132, almost three years passed by, and you still have	2 3 4 5 6 7 8 9 10 11 12 13 14	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an operator looks at its records, it has the responsibility of assuring that those records are
2 3 4 5 6 7 8 9 10 11 12 13 14 15	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to exist? I mean, the way I look at PG&E line 132, almost three years passed by, and you still have unknown values in several areas.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an operator looks at its records, it has the responsibility of assuring that those records are as good as they can be.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to exist? I mean, the way I look at PG&E line 132, almost three years passed by, and you still have unknown values in several areas. LINDA DAUGHERTY: On the federal lines,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an operator looks at its records, it has the responsibility of assuring that those records are as good as they can be. When it is conducting its assessment, it
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to exist? I mean, the way I look at PG&E line 132, almost three years passed by, and you still have unknown values in several areas. LINDA DAUGHERTY: On the federal lines, we would expect the operator to provide a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an operator looks at its records, it has the responsibility of assuring that those records are as good as they can be. When it is conducting its assessment, it has the responsibility of making sure it has the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to exist? I mean, the way I look at PG&E line 132, almost three years passed by, and you still have unknown values in several areas. LINDA DAUGHERTY: On the federal lines, we would expect the operator to provide a technical justification.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an operator looks at its records, it has the responsibility of assuring that those records are as good as they can be. When it is conducting its assessment, it has the responsibility of making sure it has the best information possible. And when it makes a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to exist? I mean, the way I look at PG&E line 132, almost three years passed by, and you still have unknown values in several areas. LINDA DAUGHERTY: On the federal lines, we would expect the operator to provide a technical justification. I can't speak to seven years or however	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an operator looks at its records, it has the responsibility of assuring that those records are as good as they can be. When it is conducting its assessment, it has the responsibility of making sure it has the best information possible. And when it makes a decision on the issue of risks and threats, it
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to exist? I mean, the way I look at PG&E line 132, almost three years passed by, and you still have unknown values in several areas. LINDA DAUGHERTY: On the federal lines, we would expect the operator to provide a technical justification. I can't speak to seven years or however long. I would say, if there's an unknown, they	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an operator looks at its records, it has the responsibility of assuring that those records are as good as they can be. When it is conducting its assessment, it has the responsibility of making sure it has the best information possible. And when it makes a decision on the issue of risks and threats, it must assess the situation fully. The whole part
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the ground based on good technical engineering justification. Maybe they dig it up and examine it; maybe they have other information that would allow them to apply a safety factor. But if you're looking for a value, I can't provide what a minimum value might be. RAVI CHHATRE: And the regulation states it like that? LINDA DAUGHERTY: Correct. RAVI CHHATRE: And how long the regulation of those operators will continue to exist? I mean, the way I look at PG&E line 132, almost three years passed by, and you still have unknown values in several areas. LINDA DAUGHERTY: On the federal lines, we would expect the operator to provide a technical justification. I can't speak to seven years or however	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	panel acknowledged that, in essence, age does matter when it comes to pipelines. How do you determine that the pipeline operator adequately addressed in its integrity management program characteristics that may be associated with age of a pipeline? And obviously we have a particular interest in the situation that occurred in San Bruno where the age of the pipeline suggested that perhaps the records were not correct, and/or that the inspections programs did not adequately identify the situation. LINDA DAUGHERTY: You know, when an operator looks at its records, it has the responsibility of assuring that those records are as good as they can be. When it is conducting its assessment, it has the responsibility of making sure it has the best information possible. And when it makes a decision on the issue of risks and threats, it

	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 562		Page 564
1	assess for them.	1	for the threats to that pipe, whether they be very
2	And then once you know what you're	1	unique or not, and then you must address them.
3	dealing with, you address those.	3	CONNIE JACKS: Thank you.
4	You must have good information, and your	4	Again for the PHMSA panel member best
	plan must be based on the best information, the	5	able to answer the question: There was discussion
	best integration of data that you can get. And		yesterday regarding control room operational
	you apply good safety factors into that.	1	procedures and other factors associated with
8	When you assess your pipeline, and you		controls and maintenance that may have had an
9	find issues, you must repair them. Then you must		impact, or an effect with regard to this accident.
	apply that to the rest of your line.	10	How do you determine if these if the
11	So and it's about learning, taking	11	operator's operational procedures procedural
12	the information you learn and putting it back into	12	
	your plan.	13	operator's integrity management program?
14	You apply mitigative and preventive	14	LINDA DAUGHERTY: Would you please
15	measures.	15	restate that? I got lost.
16	One of the big issues we're looking at	16	CONNIE JACKS: How do you determine if
17	now is whether operators are doing a good job on	17	operational procedures such as control room
	this assessment, whether they understand what they	18	operations and/or maintenance procedures are
	have. You asked specifically about age. There	19	adequately addressed within an operator's
	are some things we know about age. We do know	20	integrity management program?
	that pipeline age is not necessarily the only	21	LINDA DAUGHERTY: Would you like to
	factor to look at. You may have an older pipeline	22	we have a control management plan coming out that
	Page 563		Page 565
1	Page 563 that is in very good shape.	1	Page 565 addresses equipment. The integrity management
1		1	-
2	that is in very good shape.	2	addresses equipment. The integrity management
2 3	that is in very good shape. But, on the other hand, if there are	2 3	addresses equipment. The integrity management program really looks towards threats to a
2 3 4	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe	2 3 4	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems
2 3 4 5	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be	2 3 4 5	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that,
2 3 4 5 6	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect	2 3 4 5 6	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the
2 3 4 5 6 7	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how	2 3 4 5 6	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it.
2 3 4 5 6 7 8 9	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your	2 3 4 5 6 7 8 9	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question
2 3 4 5 6 7 8 9 10	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the	2 3 4 5 6 7 8 9	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC.
2 3 4 5 6 7 8 9 10 11	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC	2 3 4 5 6 7 8 9 10 11	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in
2 3 4 5 6 7 8 9 10 11 12	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity	2 3 4 5 6 7 8 9 10 11 12	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length
2 3 4 5 6 7 8 9 10 11 12 13	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are	2 3 4 5 6 7 8 9 10 11 12 13	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured
2 3 4 5 6 7 8 9 10 11 12 13	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are adequately addressed.	2 3 4 5 6 7 8 9 10 11 12 13 14	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured section, will the PUC be considering the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are adequately addressed. LINDA DAUGHERTY: Yes. Every operator	2 3 4 5 6 7 8 9 10 11 12 13 14 15	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured section, will the PUC be considering the requirement or encouragement of automatic shutoff
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are adequately addressed. LINDA DAUGHERTY: Yes. Every operator is expected to thoroughly understand their system.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured section, will the PUC be considering the requirement or encouragement of automatic shutoff valves, remote control valves and/or improved
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are adequately addressed. LINDA DAUGHERTY: Yes. Every operator is expected to thoroughly understand their system. Every pipeline system is unique.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured section, will the PUC be considering the requirement or encouragement of automatic shutoff valves, remote control valves and/or improved monitoring systems in the pipeline?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are adequately addressed. LINDA DAUGHERTY: Yes. Every operator is expected to thoroughly understand their system. Every pipeline system is unique. One of the benefits of the integrity	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured section, will the PUC be considering the requirement or encouragement of automatic shutoff valves, remote control valves and/or improved monitoring systems in the pipeline? RICHARD CLARK: The answer is yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are adequately addressed. LINDA DAUGHERTY: Yes. Every operator is expected to thoroughly understand their system. Every pipeline system is unique. One of the benefits of the integrity management program is that it is not a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured section, will the PUC be considering the requirement or encouragement of automatic shutoff valves, remote control valves and/or improved monitoring systems in the pipeline? RICHARD CLARK: The answer is yes. We've already begun that and we the commission
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are adequately addressed. LINDA DAUGHERTY: Yes. Every operator is expected to thoroughly understand their system. Every pipeline system is unique. One of the benefits of the integrity management program is that it is not a cookie-cutter regulation. It does not have a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured section, will the PUC be considering the requirement or encouragement of automatic shutoff valves, remote control valves and/or improved monitoring systems in the pipeline? RICHARD CLARK: The answer is yes. We've already begun that and we the commission ordered out a rule-making on February 24th.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are adequately addressed. LINDA DAUGHERTY: Yes. Every operator is expected to thoroughly understand their system. Every pipeline system is unique. One of the benefits of the integrity management program is that it is not a cookie-cutter regulation. It does not have a one-size-fits-all answer to integrity issues. It	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured section, will the PUC be considering the requirement or encouragement of automatic shutoff valves, remote control valves and/or improved monitoring systems in the pipeline? RICHARD CLARK: The answer is yes. We've already begun that and we the commission ordered out a rule-making on February 24th. It has two phases to it, a phase A and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that is in very good shape. But, on the other hand, if there are unknowns, if there is there's a type of pipe called a pre-'70 ERW pipe. That we know can be problematic. If you have that pipe, we'd expect you to do some really hard thinking about how you're going to assess that pipe. So you do have to factor that into your integrity management. CONNIE JACKS: I'm assuming by your answer that PHMSA does look, then, in terms of the audit or the overview or rather, the CPUC should be looking for indication in the integrity management program that those issues are adequately addressed. LINDA DAUGHERTY: Yes. Every operator is expected to thoroughly understand their system. Every pipeline system is unique. One of the benefits of the integrity management program is that it is not a cookie-cutter regulation. It does not have a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	addresses equipment. The integrity management program really looks towards threats to a pipeline. If there was, in other words, problems with the control equipment or something like that, that could come under equipment threat. Under the integrity management plan there was training for issues for that type of thing. So that's where we would look at it. CONNIE JACKS: Thank you. This question is for the PUC. Considering the population density in the area, the intensity of the fire and the length of time that it took to isolate the ruptured section, will the PUC be considering the requirement or encouragement of automatic shutoff valves, remote control valves and/or improved monitoring systems in the pipeline? RICHARD CLARK: The answer is yes. We've already begun that and we the commission ordered out a rule-making on February 24th.

PG	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2		March 2, 201
	Page 566		Page 568
1	for construction, especially with respect to	1	out an implementation plan and program for
	remotely controlled valves and automatic shutoff		integrity management.
1	valves.	3	Integrity management inspections are
4	CONNIE JACKS: Okay. Thank you.	4	certainly, as I think our operators would share
5	RICHARD CLARK: You're welcome.	1	with you, are not short-lived inspections; they're
6	CHAIRMAN HERSMAN: PG&E.		not a checklist. Their investigative approach to
7	KIRK JOHNSON: We have no questions.		looking at issues and threats and assessments of
8	CHAIRMAN HERSMAN: IBEW.		threats, methodologies that pipeline companies
9	DEBBIE MAZZANTI: We have no questions.		employ to address those threats, there may
10	CHAIRMAN HERSMAN: PHMSA?		there would be an inspection team that consists
11	JEFF WIESE: Integrity management. The		maybe of four to five to eight senior inspectors
12	CPUCs know, and said it's one of many different	1	there that are running through a list of
13	types of inspections, but I would like to ask you		protocols, and looking at records, and verifying
1	to talk a little bit about the regulatory		records, and looking at methodologies, that are
	approach, and why I mean, what's the value of	1	applied to the threats, and preventive and
1	that particular approach?	1	mitigative measures and follow-ups.
17	LINDA DAUGHERTY: It is not	17	So they're not they're not just a
18	prescriptive. It is not a cookie-cutter	18	quick checklist approach; they're not just looking
	regulation. It requires an understanding of	19	at procedures. If they're looking at procedures
	pipeline facilities. It requires a comprehensive	20	
	assessment of the facility.	21	they actually check the activities in the field on
22	It also incorporates the ideas of risk	1	occasion when they have the opportunity when
-	Page 567		Page 569
-	management where you apply your greatest resources	-	there's a dig going on or something like that that
	to your greatest risks. It provides additional		we can verify what's done there.
	protections where the greatest risks are to	3	So the integrity management program,
	people, and to the environment. As a		again, was a joint effort between PHMSA and the
	performance-based regulation, it requires us	1	state plan safety partners. We have workshops, we
	the regulations are difficult. They're not easy.	1	include the industry and the FAQs and any of our
	Sometimes the best solutions are not. It's a lot		guidance material that we are pulling together
	of work to implement the operators and to be	1	trying to address issues for the implementation of
	inspected by regulators.	1	this rule. It's a very extensive integrity rule
9 10	But we believe it is worth the outcome.	9 10	
	And we believe our safety trends are showing that	11	I think it's probably one of the most
	it is effective.	1	significant rule-makings that we have at PHMSA.
12	JEFF WIESE: For Mr. Barrett, I'd like	12	JEFF WIESE: Great. And thanks. And
	to ask you to talk a little bit about the		lastly a question for Mr. Metro.
	development of the gas integrity management	14	In terms of I'm anticipating, then,
	oversight process. Your approach, how you		your recommendation coming to us shortly. But I
	prepared, and just describe quickly for us, if you		would like to just ask, if you would, we've had a
	will, what a gas integrity audit might look like,		long association between the states and PHMSA,
1 - 0	very quickly.		federal government. I wonder if you would talk
		1 7 2	reaerai government. I wonder n you would talk
19		20	just a little hit about how that plays out during
19 20	ZACH BARRETT: States' pipeline safety	1	just a little bit about how that plays out during the course of a year
19 20 21		1	just a little bit about how that plays out during the course of a year. Next year you get to be the Chairman, if

	Page 570		Page 572
1	you're not already, and maybe you could enlighten	1	management, they are performance-based. And from
	us on that.		the NAPSR point of view, we believe that the
3	PAUL METRO: First let me address your		performance-based measures are working. We need
4	first point, in that the National Association of		to study whether there's further enhancements that
	Pipeline Safety Representatives, NAPSR in		are needed.
	proposing something to work towards a solution,	6	But if you look at the number of
	works through the resolution process through 48	7	anomalies that have been protected through
	states and we have we only meet once a year,		performance-based measures, if you look at the
	and we'll try to accelerate that process, to get		number of repairs made to pipeline, there would be
	resolution to PHMSA addressing the MAOP for	10	a very strong argument that performance-based
11	grandfathered pipes.	1	measures are working.
12	On the communication portion of it, as	12	However, if you look at record-keeping,
13	with all partnerships, there's been rocky periods	13	that might be one area in which we need to to
14	in which there's been strained relationships.	14	get away from performance-based measures and look
15	Over the last five years, the both	15	at prescriptive measures, that you must keep this,
16	parties, both partners, have worked very hard to	16	this, this and this record.
17	develop a very good communication between each	17	PAUL CLANON: Thank you. And the same
18	other, and worked very hard to meet quite	18	question for Ms. Daugherty. And I wonder whether
19	frequently.	19	you agree with that. And in particular, the
20	For example, we meet with PHMSA in all	1	notion of finding the right balance between
21	the regional meetings, of which there are five.	21	prescriptive and performance-based in this area.
22	We meet at the annual meeting; we have	22	LINDA DAUGHERTY: Yes, I agree. I
	D		Deres 570
	Page 571		Page 573
	monthly calls with Jeff, with the executive board	1	believe that Paul stated it very well, that there
2	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach	1	believe that Paul stated it very well, that there is a balance.
2 3	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we	2 3	believe that Paul stated it very well, that there is a balance. And we have found that performance-based
2 3 4	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is	2 3 4	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are
2 3 4 5	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong	2 3 4 5	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and
2 3 4 5 6	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever.	2 3 4 5 6	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at.
2 3 4 5 6 7	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I	2 3 4 5 6 7	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those.
2 3 4 5 6 7 8	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have.	2 3 4 5 6 7 8	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said.
2 3 4 5 6 7 8 9	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC.	2 3 4 5 6 7 8 9	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping
2 3 4 5 6 7 8 9	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a	2 3 4 5 6 7 8 9 10	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's
2 3 4 5 6 7 8 9 10 11	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last	2 3 4 5 6 7 8 9 10 11	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at.
2 3 4 5 6 7 8 9 10 11 12	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus	2 3 4 5 6 7 8 9 10 11 12	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than
2 3 4 5 6 7 8 9 10 11 12 13	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus performance-based measures and regulation.	2 3 4 5 6 7 8 9 10 11 12 13	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than record-keeping that pops into the top of your list
2 3 4 5 6 7 8 9 10 11 12 13 14	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus performance-based measures and regulation. Can you flesh out what those two terms	2 3 4 5 6 7 8 9 10 11 12 13 14	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than record-keeping that pops into the top of your list to balance things a bit towards prescriptive?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus performance-based measures and regulation. Can you flesh out what those two terms mean? And then I'll have a follow-up.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than record-keeping that pops into the top of your list to balance things a bit towards prescriptive? LINDA DAUGHERTY: I would have to think
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus performance-based measures and regulation. Can you flesh out what those two terms mean? And then I'll have a follow-up. PAUL METRO: The performance-based	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than record-keeping that pops into the top of your list to balance things a bit towards prescriptive? LINDA DAUGHERTY: I would have to think about that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus performance-based measures and regulation. Can you flesh out what those two terms mean? And then I'll have a follow-up. PAUL METRO: The performance-based measures are measures that we look at. We study	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than record-keeping that pops into the top of your list to balance things a bit towards prescriptive? LINDA DAUGHERTY: I would have to think about that. PAUL CLANON: Anyone else on the panel
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus performance-based measures and regulation. Can you flesh out what those two terms mean? And then I'll have a follow-up. PAUL METRO: The performance-based measures are measures that we look at. We study and analyze how the utility performs under certain	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than record-keeping that pops into the top of your list to balance things a bit towards prescriptive? LINDA DAUGHERTY: I would have to think about that. PAUL CLANON: Anyone else on the panel want to suggest anything else?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus performance-based measures and regulation. Can you flesh out what those two terms mean? And then I'll have a follow-up. PAUL METRO: The performance-based measures are measures that we look at. We study and analyze how the utility performs under certain thresholds. Prescriptive measures are more of a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than record-keeping that pops into the top of your list to balance things a bit towards prescriptive? LINDA DAUGHERTY: I would have to think about that. PAUL CLANON: Anyone else on the panel want to suggest anything else? JULIE HALLIGAN: (Adjusting microphone)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus performance-based measures and regulation. Can you flesh out what those two terms mean? And then I'll have a follow-up. PAUL METRO: The performance-based measures are measures that we look at. We study and analyze how the utility performs under certain thresholds. Prescriptive measures are more of a checklist of, you must do this, this, this and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than record-keeping that pops into the top of your list to balance things a bit towards prescriptive? LINDA DAUGHERTY: I would have to think about that. PAUL CLANON: Anyone else on the panel want to suggest anything else? JULIE HALLIGAN: (Adjusting microphone) Go ahead.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	monthly calls with Jeff, with the executive board at NAPSR, and we meet in various ways with Zach and Linda and three different committees that we have. So I think the communication right now is an all-time high and the partnership is as strong as ever. JEFF WIESE: Thank you. That's all I have. CHAIRMAN HERSMAN: CPUC. PAUL CLANON: Thank you. We talked a couple of times and also when in the last change about prescriptive rules versus performance-based measures and regulation. Can you flesh out what those two terms mean? And then I'll have a follow-up. PAUL METRO: The performance-based measures are measures that we look at. We study and analyze how the utility performs under certain thresholds. Prescriptive measures are more of a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	believe that Paul stated it very well, that there is a balance. And we have found that performance-based regulations do have good outcomes, if they are properly applied, and the oversight is strong and effective. There are gaps that we are looking at. There are weaknesses, and we are addressing those. So yes, I thought it was very well said. I do believe that the record-keeping issue as identified in the advisory, yeah, that's something we need to look at. PAUL CLANON: Anything else other than record-keeping that pops into the top of your list to balance things a bit towards prescriptive? LINDA DAUGHERTY: I would have to think about that. PAUL CLANON: Anyone else on the panel want to suggest anything else? JULIE HALLIGAN: (Adjusting microphone)

РG	&E Gas Transmission Pipeline - DAY 2	1	March 2, 201
	Page 574		Page 576
1	performance-based would be better.	1	And if it needs to be included by adding
2	(LAUGHTER)	2	a few other prescriptive rules, that's one way of
3	JULIE HALLIGAN: And of course, in the	3	doing it, or just make sure that it's strengthened
4	process I think I've forgotten what I was going to		in a performance-based rule.
5	add.	5	PAUL CLANON: And, thank you. That's
6	LINDA DAUGHERTY: We were talking about	6	all I have.
7	areas where you thought prescriptive might be	7	CHAIRMAN HERSMAN: Member Sumwalt.
8	better than performance-based.	8	MEMBER SUMWALT: We're talking about
9	One of the items I'll jump in while	9	integrity management systems in the global sense.
10	she's reflecting her thoughts one of the items		Let me focus on the San Bruno event. You
11		11	mentioned before the break that if someone doesn't
12	PAUL CLANON: We can't hear you, I'm	12	know what's in the ground, they need to find out
13	SOITY.		what's in the ground. And that sounds reasonable.
14	JULIE HALLIGAN: She did it.		And I think one of the things you said was, dig it
15	(LAUGHTER)	1	up and look at it.
16	LINDA DAUGHERTY: One of the items that	16	In the case of the San Bruno pipe, if
17	we that we need to have more prescriptive	17	they would have dug it up and looked at it, they
18	requirements is on data reporting.	18	wouldn't have seen anything abnormal.
19	You know, we collect a lot of data. Are	19	Because as I understand it, it was a
20	we collecting the right data is the question.	20	we're looking at an internal seam that was
21	Could we use more? We need to know more		defective.
22	about the infrastructure. I'm sure that there	22	And so, in this case, your integrity
	Page 575		Page 577
	, ugo or o		Fage 311
1	-	1	-
	will be people that say we collect plenty, that we		management program is only as good as the data in
2	will be people that say we collect plenty, that we collect too much, and we aren't using what we	2	management program is only as good as the data in which you populate it with; right?
2 3	will be people that say we collect plenty, that we collect too much, and we aren't using what we have.	2 3	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct.
2 3 4	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not	2 3 4	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring
2 3 4 5	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to	2 3 4 5	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I
2 3 4 5 6	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data.	2 3 4 5 6	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management
2 3 4 5 6 7	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding	2 3 4 5 6 7	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it.
2 3 4 5 6 7 8	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is	2 3 4 5 6 7 8	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity
2 3 4 5 6 7 8 9	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we	2 3 4 5 6 7 8 9	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in
2 3 4 5 6 7 8 9	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well.	2 3 4 5 6 7 8 9 10	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event?
2 3 4 5 6 7 8 9 10	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one	2 3 4 5 6 7 8 9 10 11	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good
2 3 4 5 6 7 8 9 10 11 12	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules,	2 3 4 5 6 7 8 9 10 11 12	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you
2 3 4 5 6 7 8 9 10 11 12 13	 will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules, whether it is additional prescriptive rules or 	2 3 4 5 6 7 8 9 10 11 12 13	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you know what you don't know? I've heard that stated
2 3 4 5 6 7 8 9 10 11 12 13 14	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules, whether it is additional prescriptive rules or additional performance rules, is that, I think	2 3 4 5 6 7 8 9 10 11 12 13 14	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you know what you don't know? I've heard that stated earlier. And it's a very good question.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules, whether it is additional prescriptive rules or additional performance rules, is that, I think they need to look more at making sure that there's 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you know what you don't know? I've heard that stated earlier. And it's a very good question. With the San Bruno situation, if they
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules, whether it is additional prescriptive rules or additional performance rules, is that, I think they need to look more at making sure that there's continuous improvement included within the bowl, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you know what you don't know? I've heard that stated earlier. And it's a very good question. With the San Bruno situation, if they had known, and they excavated, perhaps they would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules, whether it is additional prescriptive rules or additional performance rules, is that, I think they need to look more at making sure that there's continuous improvement included within the bowl, and so there's not the opportunity to sit with 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you know what you don't know? I've heard that stated earlier. And it's a very good question. With the San Bruno situation, if they had known, and they excavated, perhaps they would have seen the multiple we called them pups, or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules, whether it is additional prescriptive rules or additional performance rules, is that, I think they need to look more at making sure that there's continuous improvement included within the bowl, and so there's not the opportunity to sit with grandfathered pipes and not make the efforts to 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you know what you don't know? I've heard that stated earlier. And it's a very good question. With the San Bruno situation, if they had known, and they excavated, perhaps they would have seen the multiple we called them pups, or different they would have seen that the pipe
2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules, whether it is additional prescriptive rules or additional performance rules, is that, I think they need to look more at making sure that there's continuous improvement included within the bowl, and so there's not the opportunity to sit with grandfathered pipes and not make the efforts to make them pick a bowl, or whether they should be	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you know what you don't know? I've heard that stated earlier. And it's a very good question. With the San Bruno situation, if they had known, and they excavated, perhaps they would have seen the multiple we called them pups, or different they would have seen that the pipe was constructed somewhat in an unusual manner, and
2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules, whether it is additional prescriptive rules or additional performance rules, is that, I think they need to look more at making sure that there's continuous improvement included within the bowl, and so there's not the opportunity to sit with grandfathered pipes and not make the efforts to make them pick a bowl, or whether they should be replaced. That element of continuous improvement 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you know what you don't know? I've heard that stated earlier. And it's a very good question. With the San Bruno situation, if they had known, and they excavated, perhaps they would have seen the multiple we called them pups, or different they would have seen that the pipe was constructed somewhat in an unusual manner, and they may have done further research.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	will be people that say we collect plenty, that we collect too much, and we aren't using what we have. I believe that that is probably not correct; that we do have data. We need to collect, maybe, different data. We need to have a better understanding of our infrastructure. The infrastructure is changing, and in order to assess the risks, we need to understand it very well. JULIE HALLIGAN: Thank you. The one thing that I was going to add is that the rules, whether it is additional prescriptive rules or additional performance rules, is that, I think they need to look more at making sure that there's continuous improvement included within the bowl, and so there's not the opportunity to sit with grandfathered pipes and not make the efforts to make them pick a bowl, or whether they should be	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	management program is only as good as the data in which you populate it with; right? LINDA DAUGHERTY: That is correct. MEMBER SUMWALT: So explain to me, bring it down to San Bruno, and explain how how I mean, like I said, the integrity management program is only as good as the information in it. So how could a different integrity management system have made any difference in this in the outcome of this event? LINDA DAUGHERTY: That's a good question. It basically goes to what how do you know what you don't know? I've heard that stated earlier. And it's a very good question. With the San Bruno situation, if they had known, and they excavated, perhaps they would have seen the multiple we called them pups, or different they would have seen that the pipe was constructed somewhat in an unusual manner, and

	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 578		Page 580
1	other than observing the external characteristics	1	the speed limit is 65, you can drive your car at
	of the pipe that might cause you to say, look,		55, but you may go up to 65. You cannot exceed
	this is unusual. It doesn't match what our		65, but you may go up to it.
4	records say and we need to figure out what we've	4	You are not required to occasionally
	got here.	5	drive your car to 65 to show that it can go 65.
6	So the question is valid.	6	MEMBER WEENER: Okay. Then the
7	MEMBER SUMWALT: And thank you. So	7	requirement is there just to avoid having to to
8	tomorrow we will be talking about industry-wide	8	do another test in case you bring in case you
9	technology which may have some of the answers.		have the environment around the pipeline changed
10	Thank you very much for your answer.	10	to a high-consequence area?
11	CHAIRMAN HERSMAN: Member Weener.	11	Is that what it did I understand that
12	MEMBER WEENER: My background, of	12	right?
13	course, is not in pipelines; it's in aviation	13	LINDA DAUGHERTY: My understanding is
14	engineering. So, pardon a naive question. And	14	that the company chose to raise the pressure to
15	this is probably for Ms. Daugherty:	15	establish the high MOP pressure at MAOP, so that
16	There's been some references to a notion	16	if a new HCA was identified, that it could use
17	of bringing the pipeline up to a certain high	17	that pressure as the MAOP without doing a seam
18	pressure at least once every five years.	18	assessment.
19	What's the reason for that?	19	The rate let me see if I can help.
20	LINDA DAUGHERTY: Under the federal	20	The regulation says that when a new HCA
	regulations, there is no requirement for an		is identified, you must look back five years to
22	operator to raise the pressure to MAOP to maintain	22	determine the highest MOP that that line segment
	D 570	-	D 504
	Page 579		Page 581
1	Page 579 that MAOP.	1	has seen.
2	that MAOP. My understanding, in short, is that PG&E	2	has seen. If you exceed that if you've exceeded
2 3	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish	2 3	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The
2 3 4	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified,	2 3 4	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an
2 3 4	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment.	2 3 4	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA.
2 3 4 5 6	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is	2 3 4 5 6	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials
2 3 4 5 6	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test.	2 3 4 5 6 7	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA
2 3 4 5 6 7 8	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider	2 3 4 5 6 7 8	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road.
2 3 4 5 6 7 8 9	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the	2 3 4 5 6 7 8 9	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want
2 3 4 5 6 7 8 9 10	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters.	2 3 4 5 6 7 8 9	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such
2 3 4 5 6 7 8 9 10 11	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain	2 3 4 5 6 7 8 9 10 11	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark.
2 3 4 5 6 7 8 9 10 11 12	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration.	2 3 4 5 6 7 8 9 10 11 12	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind.
2 3 4 5 6 7 8 9 10 11 12 13	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration. MEMBER WEENER: So if this is not a	2 3 4 5 6 7 8 9 10 11 12 13	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: One question I have
2 3 4 5 6 7 8 9 10 11 12 13 14	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration. MEMBER WEENER: So if this is not a pressure test, it's the aeronautical equivalent to	2 3 4 5 6 7 8 9 10 11 12 13 14	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: One question I have from the federal perspective, as well as state.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration. MEMBER WEENER: So if this is not a pressure test, it's the aeronautical equivalent to max never exceed speed and see if it still	2 3 4 5 6 7 8 9 10 11 12 13 14 15	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: One question I have from the federal perspective, as well as state. One of the advantages of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration. MEMBER WEENER: So if this is not a pressure test, it's the aeronautical equivalent to max never exceed speed and see if it still stays together?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: One question I have from the federal perspective, as well as state. One of the advantages of performance-based programs, of course, is that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration. MEMBER WEENER: So if this is not a pressure test, it's the aeronautical equivalent to max never exceed speed and see if it still stays together? LINDA DAUGHERTY: I would hope not.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: One question I have from the federal perspective, as well as state. One of the advantages of performance-based programs, of course, is that intrinsically you should be able to measure them.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration. MEMBER WEENER: So if this is not a pressure test, it's the aeronautical equivalent to max never exceed speed and see if it still stays together? LINDA DAUGHERTY: I would hope not. The like I said, the pipeline itself	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: One question I have from the federal perspective, as well as state. One of the advantages of performance-based programs, of course, is that intrinsically you should be able to measure them. And so Mr. Barrett started talking about 100
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration. MEMBER WEENER: So if this is not a pressure test, it's the aeronautical equivalent to max never exceed speed and see if it still stays together? LINDA DAUGHERTY: I would hope not. The like I said, the pipeline itself is not or the operator is not required to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: One question I have from the federal perspective, as well as state. One of the advantages of performance-based programs, of course, is that intrinsically you should be able to measure them. And so Mr. Barrett started talking about 100 percent, and California CBC at 90 percent.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration. MEMBER WEENER: So if this is not a pressure test, it's the aeronautical equivalent to max never exceed speed and see if it still stays together? LINDA DAUGHERTY: I would hope not. The like I said, the pipeline itself is not or the operator is not required to pressure the pipe to the MAOP to maintain the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: One question I have from the federal perspective, as well as state. One of the advantages of performance-based programs, of course, is that intrinsically you should be able to measure them. And so Mr. Barrett started talking about 100 percent, and California CBC at 90 percent. There a report card or other card based
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that MAOP. My understanding, in short, is that PG&E may have raised the pressure in order to establish a MOP level such that if a new HCA was identified, they would not have to do a seam assessment. MEMBER SUMWALT: So in a sense, this is a pressure test. LINDA DAUGHERTY: I would not consider it a pressure test. A pressure test under the federal regulations has very specific parameters. It requires that you bring the pipe to a certain level of stress, and a certain duration. MEMBER WEENER: So if this is not a pressure test, it's the aeronautical equivalent to max never exceed speed and see if it still stays together? LINDA DAUGHERTY: I would hope not. The like I said, the pipeline itself is not or the operator is not required to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	has seen. If you exceed that if you've exceeded that, then you must do a seam assessment. The trigger date is the date of when you identify an HCA. So, as I understand the materials presented, PG&E said, we may have an HCA identified next year, or two years down the road. Therefore, we want to establish our MOP. We want to bring it up, so that to the MAOP level such that that is the benchmark. CHAIRMAN HERSMAN: Member Rosekind. MEMBER ROSEKIND: One question I have from the federal perspective, as well as state. One of the advantages of performance-based programs, of course, is that intrinsically you should be able to measure them. And so Mr. Barrett started talking about 100 percent, and California CBC at 90 percent.

	a Cas ITansinission I ipenne - DAT 2		March 2, 2011
	Page 582		Page 584
1	PUCs	1	a safety enhancer as a result, we can't we have
2	ZACH BARRETT: Sure. We do a scoring		to decertify.
	document each year based on the jurisdictions, the	3	There's a cutoff where you're not
	minimum training and those sort of things with the		certified anymore, so the inflation having
			· · · · ·
	training. We use the grant score to distribute		everybody at 97 percent is an accurate portrayal.
	the funding each year. So yes, we do have scores	6	So you have cutoffs, not that you have
	for each individual state. You'll find that those		to be certified, but if there are areas that
8	scores are in the 90s to the high 90s.		people aren't performing the state PUCs that's
9	MEMBER ROSEKIND: So give us a sense	9	because it's not strictly based upon the scores.
10	and I heard what you just said, but is there an	10	The scores are indicative of if you stop doing
11	average, standard deviation? Where are these	11	inspections and stop doing things, you don't score
12	state PUCs, basically, and sort of how we're doing	12	very well. So we do have a score cutoff.
13	as a country.	13	But we have reports of what our total
14	ZACH BARRETT: As a country, I'd say	14	programs are. And if you do not meet those, we
15	we're doing well. Your safety programs are		have to decertify a state.
	certainly meeting, you know the scores I think	16	We've only done it, in many, many years,
	are primarily from 97 to 100 unless there's some		just once. We've been at it since 1971. NTSB
	problem with legislation like the PUC is		recognized earlier in the opening that they accept
	experiencing, where they'll have full safety	1	their investigative reports when they're strapped
	authority like PHMSA would have over their	1	
	•		for you know, strapped for a solution to do
	operators. So we hit them pretty hard for that.		those kinds of things. So I think that speaks
22	But the as the nation goes, our state	22	well.
	Page 583		Page 585
		1	i age 565
			-
	biplane safety programs are dedicated, the folks	1	MEMBER ROSEKIND: There are flags to
2	biplane safety programs are dedicated, the folks are they take the same training that their	2	MEMBER ROSEKIND: There are flags to intervene when needed
2 3	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma		MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes.
2 3	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ.	2 3 4	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if
2 3 4 5	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in	2 3 4 5	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive.
2 3 4 5 6	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any	2 3 4 5 6	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to
2 3 4 5 6	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in	2 3 4 5 6 7	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And
2 3 4 5 6 7	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any	2 3 4 5 6 7	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to
2 3 4 5 6 7	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they	2 3 4 5 6 7 8	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And
2 3 4 5 6 7 8 9	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway.	2 3 4 5 6 7 8 9	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel,
2 3 4 5 6 7 8 9 10	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do	2 3 4 5 6 7 8 9	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and
2 3 4 5 6 7 8 9 10	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up	2 3 4 5 6 7 8 9 10 11	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have
2 3 4 5 6 7 8 9 10 11 12	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to	2 3 4 5 6 7 8 9 10 11 12	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and
2 3 4 5 6 7 8 9 10 11 12 13	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program	2 3 4 5 6 7 8 9 10 11 12 13	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the
2 3 4 5 6 7 8 9 10 11 12 13 14	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program are Alaska and Hawaii. Hawaii was in the biplane	2 3 4 5 6 7 8 9 10 11 12 13	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the kind of thing that comes up on a checklist as, oh, we did surveys.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program are Alaska and Hawaii. Hawaii was in the biplane safety program back in the late '80s and early	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the kind of thing that comes up on a checklist as, oh, we did surveys. So "performance-based" means having an
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program are Alaska and Hawaii. Hawaii was in the biplane safety program back in the late '80s and early '90s, and in '95 we decertified that state because	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the kind of thing that comes up on a checklist as, oh, we did surveys. So "performance-based" means having an effective evaluation of whether or not your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program are Alaska and Hawaii. Hawaii was in the biplane safety program back in the late '80s and early '90s, and in '95 we decertified that state because of lack of allowing inspections.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the kind of thing that comes up on a checklist as, oh, we did surveys. So "performance-based" means having an effective evaluation of whether or not your program works, right? Not just that you send
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program are Alaska and Hawaii. Hawaii was in the biplane safety program back in the late '80s and early '90s, and in '95 we decertified that state because of lack of allowing inspections. We worked with them, and supported their	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the kind of thing that comes up on a checklist as, oh, we did surveys. So "performance-based" means having an effective evaluation of whether or not your program works, right? Not just that you send things out.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program are Alaska and Hawaii. Hawaii was in the biplane safety program back in the late '80s and early '90s, and in '95 we decertified that state because of lack of allowing inspections. We worked with them, and supported their staff. It's a last resort with us. We'd rather	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the kind of thing that comes up on a checklist as, oh, we did surveys. So "performance-based" means having an effective evaluation of whether or not your program works, right? Not just that you send things out. Are those, again, performance-based
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program are Alaska and Hawaii. Hawaii was in the biplane safety program back in the late '80s and early '90s, and in '95 we decertified that state because of lack of allowing inspections. We worked with them, and supported their staff. It's a last resort with us. We'd rather help the state and improve the state's program's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the kind of thing that comes up on a checklist as, oh, we did surveys. So "performance-based" means having an effective evaluation of whether or not your program works, right? Not just that you send things out. Are those, again, performance-based qualified on how you evaluate these programs?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program are Alaska and Hawaii. Hawaii was in the biplane safety program back in the late '80s and early '90s, and in '95 we decertified that state because of lack of allowing inspections. We worked with them, and supported their staff. It's a last resort with us. We'd rather help the state and improve the state's program's performance. But in the case where they're not	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the kind of thing that comes up on a checklist as, oh, we did surveys. So "performance-based" means having an effective evaluation of whether or not your program works, right? Not just that you send things out. Are those, again, performance-based qualified on how you evaluate these programs? LINDA DAUGHERTY: Definitely. We would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	biplane safety programs are dedicated, the folks are they take the same training that their federal inspectors take at the station at Oklahoma City in TQ. They work with us, you know, hand in glove, you know, we try to support them, and any questions or issues or investigations that they have underway. MEMBER ROSEKIND: So based on that, do you have cutoffs for when somebody's not doing up to ZACH BARRETT: The only the only states that are not in the biplane safety program are Alaska and Hawaii. Hawaii was in the biplane safety program back in the late '80s and early '90s, and in '95 we decertified that state because of lack of allowing inspections. We worked with them, and supported their staff. It's a last resort with us. We'd rather help the state and improve the state's program's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MEMBER ROSEKIND: There are flags to intervene when needed ZACH BARRETT: Yes. MEMBER ROSEKIND: There was a lively, if not articulate, discussion about prescriptive. One of the challenges with prescriptive is to check the list, sort of, version of rules. And since I've been holding this from the last panel, you know, we're hearing about public awareness and their 12 items of what's effective. And we have an example here of, yeah, we sent out surveys and had 20 people out of 15,000 respond. That's the kind of thing that comes up on a checklist as, oh, we did surveys. So "performance-based" means having an effective evaluation of whether or not your program works, right? Not just that you send things out. Are those, again, performance-based qualified on how you evaluate these programs?

1	performance-based regulation. You must be	1	to quantify those and, in a more short-term basis,
	effective. That's the simple answer.	1	determine if they're meeting the objectives that
3	There are many ways that you can be	1	you set.
	effective. You just have to figure out what those	4	LINDA DAUGHERTY: That's right.
	are for your designated audience.	5	MEMBER ROSEKIND: Thank you.
6	We heard earlier from the panel that	6	CHAIRMAN HERSMAN: Vice Chairman?
	they were using a survey technique that it doesn't	7	VICE CHAIRMAN HART: In the various
	appear was effective. We would have expected them	8	
	to identify that as ineffective and to determine		regulators and overseers. And I would start with
	what would be more effective. There are many		the PUC and ask, do you exchange notes with either
	options	1	other regulatory oversight agencies in California
12	MEMBER ROSEKIND: And since we're out of		or with other utilities commissions in other
	time and maybe I'll stop on this here. I'll get	1	states regarding what what are effective means
	to the state part.	1	of oversight, what's not working well and those
15	But in that realm, that's why I was		kinds of things. Because I know in these tough
	-		
	asking about the scorecard, you know. On one		times you're looking at the most efficient way to
	hand, it's on your list demonstrating an awareness program. And I think this gets to some concern		do it. Do you exchange ideas with others in
	about the self-assessment part, which is, you	18	order to do that?
	know, the way we heard it earlier: We were doing		
	• •	20	RICHARD CLARK: Absolutely. We're very active I know mine's not working (Adjusting
	a good job with that survey, doing a bunch of things. When we look at it from another	1	microphone)
22	things. when we look at it from another	22	incrophone)
	D 507		D 500
	Page 587		Page 589
1		1	-
	perspective, maybe it wasn't.	1	We're very active with NAPSR, National
2	perspective, maybe it wasn't. So their assessment may be different	2	We're very active with NAPSR, National Association of Pipeline Safety Representatives.
2 3	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it	2 3	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were
2 3 4	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it	2 3 4	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different
2 3 4 5	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be.	2 3 4 5	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian,
2 3 4 5 6	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our	2 3 4 5 6	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states
2 3 4 5 6 7	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is	2 3 4 5 6 7	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing
2 3 4 5 6 7 8	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that	2 3 4 5 6 7 8	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also.
2 3 4 5 6 7 8 9	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the	2 3 4 5 6 7 8 9	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find
2 3 4 5 6 7 8 9 10	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact.	2 3 4 5 6 7 8 9 10	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better?
2 3 4 5 6 7 8 9 10 11	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes	2 3 4 5 6 7 8 9 10	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely.
2 3 4 5 6 7 8 9 10 11 12	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to	2 3 4 5 6 7 8 9 10 11 12	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with
2 3 4 5 6 7 8 9 10 11 12 13	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They	2 3 4 5 6 7 8 9 10 11 12 13	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry
2 3 4 5 6 7 8 9 10 11 12 13 14	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They look down the road.	2 3 4 5 6 7 8 9 10 11 12 13 14	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry all the time, so I know you're doing that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They look down the road. So if you were to ask us today to	2 3 4 5 6 7 8 9 10 11 12 13 14 15	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry all the time, so I know you're doing that. But I would ask the same question: Do
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They look down the road. So if you were to ask us today to measure the effectiveness of a rule that went into	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry all the time, so I know you're doing that. But I would ask the same question: Do you exchange notes with other federal regulators
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They look down the road. So if you were to ask us today to measure the effectiveness of a rule that went into effect a short time before, it would be difficult	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry all the time, so I know you're doing that. But I would ask the same question: Do you exchange notes with other federal regulators and overseers regarding the most effective way,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They look down the road. So if you were to ask us today to measure the effectiveness of a rule that went into effect a short time before, it would be difficult to do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry all the time, so I know you're doing that. But I would ask the same question: Do you exchange notes with other federal regulators and overseers regarding the most effective way, and what's working and what's not working?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They look down the road. So if you were to ask us today to measure the effectiveness of a rule that went into effect a short time before, it would be difficult to do. MEMBER ROSEKIND: And that once	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry all the time, so I know you're doing that. But I would ask the same question: Do you exchange notes with other federal regulators and overseers regarding the most effective way, and what's working and what's not working? LINDA DAUGHERTY: Yes, we do. As a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They look down the road. So if you were to ask us today to measure the effectiveness of a rule that went into effect a short time before, it would be difficult to do. MEMBER ROSEKIND: And that once again, I'm sorry, but I think that's why I say	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry all the time, so I know you're doing that. But I would ask the same question: Do you exchange notes with other federal regulators and overseers regarding the most effective way, and what's working and what's not working? LINDA DAUGHERTY: Yes, we do. As a matter of fact, we recently have met with some of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They look down the road. So if you were to ask us today to measure the effectiveness of a rule that went into effect a short time before, it would be difficult to do. MEMBER ROSEKIND: And that once again, I'm sorry, but I think that's why I say it's not so much the rule part, but	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry all the time, so I know you're doing that. But I would ask the same question: Do you exchange notes with other federal regulators and overseers regarding the most effective way, and what's working and what's not working? LINDA DAUGHERTY: Yes, we do. As a matter of fact, we recently have met with some of our other counterparts.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	perspective, maybe it wasn't. So their assessment may be different than your taking a look at it and saying it doesn't meet our criteria, and what effect it should be. LINDA DAUGHERTY: That is part of our job as regulators, to look at what the company is achieving and to make a judgment on whether that in fact does meet the requirements of the regulation, and whether it is having an impact. Unfortunately, as regulators, sometimes the performance measures and the metrics we use to measure effectiveness are long distance. They look down the road. So if you were to ask us today to measure the effectiveness of a rule that went into effect a short time before, it would be difficult to do. MEMBER ROSEKIND: And that once again, I'm sorry, but I think that's why I say	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	We're very active with NAPSR, National Association of Pipeline Safety Representatives. We talked with the state fire marshal. We were we're very active. We talk with all the different states. Our program manager Mr. Raffy Stepanian, spends a lot of time talking with the other states about what they're experiencing and interfacing with PHMSA also. VICE CHAIRMAN HART: And do you find that helps you do it better? RICHARD CLARK: Absolutely. VICE CHAIRMAN HART: Same question, with PHMSA. Because I see Jeff Wiese with the industry all the time, so I know you're doing that. But I would ask the same question: Do you exchange notes with other federal regulators and overseers regarding the most effective way, and what's working and what's not working? LINDA DAUGHERTY: Yes, we do. As a matter of fact, we recently have met with some of

Page 586

Page 588

	XE Gas ITanshission ripchile - DAT 2		Wiarch 2, 2011
	Page 590		Page 592
1	portions of our regulations to see if we could	1	pipes.
	benefit from each other the knowledge.	2	So, if you didn't know what the grade
3	We've looked at enforcement programs.		was of your pipe, you could assume 24,000 for the
4	We've looked at other federal agencies		lowest grade that was available. And that's
	to determine how effective our programs are	1	you know, the lowest of those is your maximum
	compared to other agency programs.	1	allowable operating impression.
7	We look across the Department of	7	CHAIRMAN HERSMAN: So, does that
	Transportation and see what other methods have		indicate that this line for PG&E can't have a
	used, and how we can learn from them.		higher operating pressure than it did in the '60s?
10	I would also say that, in some cases	1	It has to be that low or lower, based on the other
	where we have cross-functional jurisdiction	1	factors that are considered here?
	alliance for example, FERC. FERC inspects L&G	12	ZACH BARRETT: The maximum level
	facilities. We do as well. I have participated		operating pressure is locked in is it. That's
	on a joint inspection with FERC to learn from them	1	as high as you can go with that, unless you go
	and to see what they brought to the table and how		through an upgrading to increase that maximum
	we could benefit, and what we could share with	1	allowable operating pressure. And that usually
17	them that they would benefit by.		involves a pressure test.
18	VICE CHAIRMAN HART: Are you finding	18	CHAIRMAN HERSMAN: Okay. So their
19	that exchange to be helpful?		operating pressure is as it has been for some
20	LINDA DAUGHERTY: It is useful. I do		40-plus years, and it can go no higher unless they
	believe we could benefit probably from doing even		do additional measures.
	more.	22	But it can go lower if they identify
	Page 591		Page 593
1	Page 591 CHAIRMAN HERSMAN: Can we go back to	1	Page 593 weaknesses or defects or the CPUC requires them to
		1	weaknesses or defects or the CPUC requires them to lower it for regulatory reason.
2	CHAIRMAN HERSMAN: Can we go back to	1	weaknesses or defects or the CPUC requires them to lower it for regulatory reason.
2	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator	2 3 4	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go
2 3 4	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved?	2 3 4	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct.
2 3 4 5	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of	2 3 4 5	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go
2 3 4 5 6 7	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe	2 3 4 5 6	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important.
2 3 4 5 6 7 8	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a	2 3 4 5 6 7 8	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both
2 3 4 5 6 7 8	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe	2 3 4 5 6 7 8 9	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on
2 3 4 5 6 7 8 9 10	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most	2 3 4 5 6 7 8 9 10	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification
2 3 4 5 6 7 8 9 10 11	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance	2 3 4 5 6 7 8 9 10	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why.
2 3 4 5 6 7 8 9 10 11	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have available.	2 3 4 5 6 7 8 9 10 11 12	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the
2 3 4 5 6 7 8 9 10 11 12 13	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have all four of those	2 3 4 5 6 7 8 9 10 11 12 13	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs,
2 3 4 5 6 7 8 9 10 11 12 13 14	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have auilable. If you don't have all four of those things, it basically you'd have to opt down to	2 3 4 5 6 7 8 9 10 11 12 13 14	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs, and we started looking at this, is this something
2 3 4 5 6 7 8 9 10 11 12 13 14	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have available. If you don't have all four of those things, it basically you'd have to opt down to 619C, which is the grandfather clause, which is	2 3 4 5 6 7 8 9 10 11 12 13 14	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs, and we started looking at this, is this something that you had seen before in CPUC?
2 3 4 5 6 7 8 9 10 11 12 13 14	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have available. If you don't have all four of those things, it basically you'd have to opt down to 619C, which is the grandfather clause, which is the five-year window from 1965 to 1970.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs, and we started looking at this, is this something that you had seen before in CPUC? RICHARD CLARK: No, we've not seen it
2 3 4 5 6 7 8 9 10 11 12 13 14	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have available. If you don't have all four of those things, it basically you'd have to opt down to 619C, which is the grandfather clause, which is the five-year window from 1965 to 1970. That also invokes the class location	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs, and we started looking at this, is this something that you had seen before in CPUC? RICHARD CLARK: No, we've not seen it before.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have available. If you don't have all four of those things, it basically you'd have to opt down to 619C, which is the grandfather clause, which is the five-year window from 1965 to 1970. That also invokes the class location factors that you have to consider in that, so that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs, and we started looking at this, is this something that you had seen before in CPUC? RICHARD CLARK: No, we've not seen it before. CHAIRMAN HERSMAN: PHMSA?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have available. If you don't have all four of those things, it basically you'd have to opt down to 619C, which is the grandfather clause, which is the five-year window from 1965 to 1970. That also invokes the class location factors that you have to consider in that, so that throws you back up to having to have design	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs, and we started looking at this, is this something that you had seen before in CPUC? RICHARD CLARK: No, we've not seen it before. CHAIRMAN HERSMAN: PHMSA? LINDA DAUGHERTY: No, we had not seen
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have available. If you don't have all four of those things, it basically you'd have to opt down to 619C, which is the grandfather clause, which is the five-year window from 1965 to 1970. That also invokes the class location factors that you have to consider in that, so that throws you back up to having to have design factors, to know what your pipe is or to, you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs, and we started looking at this, is this something that you had seen before in CPUC? RICHARD CLARK: No, we've not seen it before. CHAIRMAN HERSMAN: PHMSA? LINDA DAUGHERTY: No, we had not seen that before. We definitely had not seen it was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have available. If you don't have all four of those things, it basically you'd have to opt down to 619C, which is the grandfather clause, which is the five-year window from 1965 to 1970. That also invokes the class location factors that you have to consider in that, so that throws you back up to having to have design factors, to know what your pipe is or to, you know, to address an earlier question, you can	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs, and we started looking at this, is this something that you had seen before in CPUC? RICHARD CLARK: No, we've not seen it before. CHAIRMAN HERSMAN: PHMSA? LINDA DAUGHERTY: No, we had not seen that before. We definitely had not seen it was the first time we heard of operators doing this.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	CHAIRMAN HERSMAN: Can we go back to basics a little bit, and how an operator establishes a MAOP and how that's approved? ZACH BARRETT: Under 619, 102 619 of regulations and I try to do this from memory, hopefully, there are four options under 619A that you can that you have to have the pipe materials and pipe specs; you have to have a pressure test; you have to have a five-year window. And the fourth option is the most appropriate pressure based on the performance history that you have available. If you don't have all four of those things, it basically you'd have to opt down to 619C, which is the grandfather clause, which is the five-year window from 1965 to 1970. That also invokes the class location factors that you have to consider in that, so that throws you back up to having to have design factors, to know what your pipe is or to, you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	weaknesses or defects or the CPUC requires them to lower it for regulatory reason. ZACH BARRETT: That's correct. CHAIRMAN HERSMAN: Okay. So, let's go back to this issue, because you remember earlier we were probing it a little bit, and I just want to follow up, because I think it's important. It seems to me that CPUC and PHMSA both had kind of a different position than PG&E had on that five-year test with the HCA identification issues. And I want to understand why. When they did this to establish what the MAOP MOP could be for newly-identified HCAs, and we started looking at this, is this something that you had seen before in CPUC? RICHARD CLARK: No, we've not seen it before. CHAIRMAN HERSMAN: PHMSA? LINDA DAUGHERTY: No, we had not seen that before. We definitely had not seen it was

	Stel Gas Hanshission Epcine - Dill 2		March 2, 2011	
	Page 594		Page 596	
	1 maybe if I can ask you, because you have some	1	safety.	
	2 more potentially some other operators: Is this	2	And then, the final concern is, as I	
	3 something that other pipeline operators have done		understand it, is trying to get the water out of	
	4 traditionally?		the pipe. There's a lot of time and effort spent	
	5 Is PG&E, you know, in the in the		to keep water from getting into pipes because it	
	6 middle of the pack? Or are they an anomaly here?		creates internal corrosion, and so you want to	
	7 PAUL METRO: As far as NAPSR is		make sure that you get all of that out of there.	
	B concerned, it's an anomaly. We haven't seen other	8	Again, these the people who actually	
	9 states report anything similar to this.		operate these systems have much more expertise	
1			than I have, but I've talked to a number of	
1			people, and I think that those are the sum of the	
	2 know I don't have a lot of time here, but I want		issues that we face.	
	3 to talk about the whole issue of doing hydrostatic	13	CHAIRMAN HERSMAN: And PHMSA, do you	
	testing from the regulator perspective.		have anything different to add on that?	
1		15	LINDA DAUGHERTY: I would suggest that	
	6 requirement for new lines back in the early 1970s,		we have found hydrostatic testing to be of great	
1			value on the interstate long lines. When we have	
1		1	found defects specifically seen defects, we	
	9 hydrostatic testing, and we understand,	1	have often ordered operators to conduct	
	o particularly, on a distribution system like PG&E.		hydrostatic testing.	
2		21	As Richard mentioned, there are pros and	
	2 regulator's perspective, some pros and cons? And		cons. Depending on the type of anomaly that you	
	Page 595		Page 597	
	1 dgo 000		Fage 557	
		1		
	1 I know we'll get a little bit more tomorrow with 2 the panel tomorrow.	1	have on your line, you may be able to remove defects. But at the same time, if you are not	
	1 I know we'll get a little bit more tomorrow with	2	have on your line, you may be able to remove	
	I know we'll get a little bit more tomorrow with the panel tomorrow.	2 3	have on your line, you may be able to remove defects. But at the same time, if you are not	
	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. 	2 3 4	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the	
	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of 	2 3 4 5	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before	
	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical 	2 3 4 5	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create	
	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable 	2 3 4 5 6 7	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues.	
	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not 	2 3 4 5 6 7 8	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite	
	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. 	2 3 4 5 6 7 8 9	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need	
1	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some 	2 3 4 5 6 7 8 9 10	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate	
1	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. 	2 3 4 5 6 7 8 9 10	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a	
111111	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you 	2 3 4 5 6 7 8 9 10 11 12	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting.	
1 1 1 1	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you might create an anomaly in the pipe by raising the 	2 3 4 5 6 7 8 9 10 11 12 13 14	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting. CHAIRMAN HERSMAN: Okay. And from a regulatory perspective, is there any other alternative to hydrostatic testing to provide	
1 1 1 1 1	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you might create an anomaly in the pipe by raising the pressure as high as as you do and not bringing 	2 3 4 5 6 7 8 9 10 11 12 13 14	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting. CHAIRMAN HERSMAN: Okay. And from a regulatory perspective, is there any other	
1 1 1 1 1	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you might create an anomaly in the pipe by raising the 	2 3 4 5 6 7 8 9 10 11 12 13 14	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting. CHAIRMAN HERSMAN: Okay. And from a regulatory perspective, is there any other alternative to hydrostatic testing to provide confidence in the line? LINDA DAUGHERTY: Do I go first?	
1 1 1 1 1	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you might create an anomaly in the pipe by raising the pressure as high as as you do and not bringing it back down. Of course, the other part the other 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting. CHAIRMAN HERSMAN: Okay. And from a regulatory perspective, is there any other alternative to hydrostatic testing to provide confidence in the line? LINDA DAUGHERTY: Do I go first? There are various types of assessments	
1 1 1 1 1 1 1 1	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you might create an anomaly in the pipe by raising the pressure as high as as you do and not bringing it back down. Of course, the other part the other downside is that the line has to be taken out of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting. CHAIRMAN HERSMAN: Okay. And from a regulatory perspective, is there any other alternative to hydrostatic testing to provide confidence in the line? LINDA DAUGHERTY: Do I go first? There are various types of assessments you can do, depending on the defect.	
1 1 1 1 1 1 1 1 1	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you might create an anomaly in the pipe by raising the pressure as high as as you do and not bringing it back down. Of course, the other part the other downside is that the line has to be taken out of service. And that has consequences in terms of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting. CHAIRMAN HERSMAN: Okay. And from a regulatory perspective, is there any other alternative to hydrostatic testing to provide confidence in the line? LINDA DAUGHERTY: Do I go first? There are various types of assessments you can do, depending on the defect. They are successful to different	
1 1 1 1 1 1 1 1 1 1 2	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you might create an anomaly in the pipe by raising the pressure as high as as you do and not bringing it back down. Of course, the other part the other downside is that the line has to be taken out of service. And that has consequences in terms of being able to deliver gas to people's homes and to 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting. CHAIRMAN HERSMAN: Okay. And from a regulatory perspective, is there any other alternative to hydrostatic testing to provide confidence in the line? LINDA DAUGHERTY: Do I go first? There are various types of assessments you can do, depending on the defect. They are successful to different degrees. You'll hear tomorrow on the panel some	
1 1 1 1 1 1 1 1 1 1 2 2	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you might create an anomaly in the pipe by raising the pressure as high as as you do and not bringing it back down. Of course, the other part the other downside is that the line has to be taken out of service. And that has consequences in terms of being able to deliver gas to people's homes and to hospitals, and that sort of thing, where where 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting. CHAIRMAN HERSMAN: Okay. And from a regulatory perspective, is there any other alternative to hydrostatic testing to provide confidence in the line? LINDA DAUGHERTY: Do I go first? There are various types of assessments you can do, depending on the defect. They are successful to different degrees. You'll hear tomorrow on the panel some of the challenges that we have, and I think	
1 1 1 1 1 1 1 1 1 1 2 2	 I know we'll get a little bit more tomorrow with the panel tomorrow. Please. CPUC and then PHMSA. RICHARD CLARK: Well, the pros, of course, are that you know beyond the typical operating pressure, the maximum allowable operating pressure of the pipeline, that it's not going to fail. The downside is the possibility of and I'm not a metallurgist by any stretch of the imagination but I have discussed it with some folks who are quite expert in this regard. There's a small possibility that you might create an anomaly in the pipe by raising the pressure as high as as you do and not bringing it back down. Of course, the other part the other downside is that the line has to be taken out of service. And that has consequences in terms of being able to deliver gas to people's homes and to 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	have on your line, you may be able to remove defects. But at the same time, if you are not using a specific protocol in how you conduct the testing, you may grow defects till right before their failure stage such that it can create issues. So hydrostatic testing has definite benefits. But it has definite cons, and you need to consider that. You do not need to eliminate one problem and create another one that you have a harder time detecting. CHAIRMAN HERSMAN: Okay. And from a regulatory perspective, is there any other alternative to hydrostatic testing to provide confidence in the line? LINDA DAUGHERTY: Do I go first? There are various types of assessments you can do, depending on the defect. They are successful to different degrees. You'll hear tomorrow on the panel some	

	Page 598		Page 600
1	Hydrostatic testing pressure testing	1	management program, thus far, any aggressive
	is one of the old forms of destructive testing a	1	efforts in those areas.
	pipe. You pressure it such that, if there are any	3	CHAIRMAN HERSMAN: Okay. So there's
	anomalies, they blow out. And there's water		definitely pros and cons to all of the tools that
	coming out, so it's relatively safe. It's	5	
	destructive.	6	But do you see cons with just leaving
7	What that does not tell you is, what is		status quo and not doing any of the above?
	left in the line. So you may have removed all of	8	JULIE HALLIGAN: Yes. Clearly, I mean,
	the harmful anomalies or you may have grown some		the commission is at a point where PG&E needs to
	harmful anomaly that, if you had not pressure		reduce pressure on several of its lines. And
	tested them, may have been stable.	1	they're undergoing a MAOP validation effort that
12	So there's the balance.		you recommended, that we've ordered them to do.
13	You asked for alternatives. Internal	13	And depending on what the results of
	inspection tools. There are certain tools that		that are, we'll be looking at taking additional
	will detect cracks in seams, but they can only be	15	
	used under certain circumstances in certain lines.		requiring a replacement program, or perhaps other
17	If you have lines with varying		methods, but
18	diameters, those tools may not function	18	CHAIRMAN HERSMAN: Okay. Thank you very
19	effectively. So you have to weigh the benefits of		much.
	each type of assessment and figure out what your	20	We actually are doing really good.
	overall risk is, and the overall benefit of the	21	
	tool.	22	tech panel for a follow-up round of questions, and
	Page 599		Page 601
1	Page 599 And I would not this may be	1	Page 601 then we'll go through the parties on the Board of
2	And I would not this may be		then we'll go through the parties on the Board of
2 3	And I would not this may be stretching a little bit, but I think people need	2 3	then we'll go through the parties on the Board of Inquiry.
2 3 4	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe	2 3 4 5	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need
2 3 4 5	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or	2 3 4 5	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty.
2 3 4 5	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of	2 3 4 5 6	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need
2 3 4 5 6 7 8	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think	2 3 4 5 6 7 8	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an
2 3 4 5 6 7 8 9	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this	2 3 4 5 6 7 8 9	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might
2 3 4 5 6 7 8 9 10	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't	2 3 4 5 6 7 8 9	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary.
2 3 4 5 6 7 8 9 10	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you.	2 3 4 5 6 7 8 9 10 11	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about
2 3 4 5 6 7 8 9 10 11 12	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on	2 3 4 5 6 7 8 9 10 11 12	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data
2 3 4 5 6 7 8 9 10 11 12 13	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on any of these alternatives to hydrostatic testing	2 3 4 5 6 7 8 9 10 11 12 13	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data collection. Are you thinking specifically of data
2 3 4 5 6 7 8 9 10 11 12 13 14	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on any of these alternatives to hydrostatic testing in California?	2 3 4 5 6 7 8 9 10 11 12 13 14	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data collection. Are you thinking specifically of data collected by the operator?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on any of these alternatives to hydrostatic testing in California? JULIE HALLIGAN: Well, I think what	2 3 4 5 6 7 8 9 10 11 12 13 14 15	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data collection. Are you thinking specifically of data collected by the operator? Or are you also addressing data
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on any of these alternatives to hydrostatic testing in California? JULIE HALLIGAN: Well, I think what we've found in PG&E's service territory, at least,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data collection. Are you thinking specifically of data collected by the operator? Or are you also addressing data collected by the regulator?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on any of these alternatives to hydrostatic testing in California? JULIE HALLIGAN: Well, I think what we've found in PG&E's service territory, at least, is that we haven't seen an aggressive effort to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data collection. Are you thinking specifically of data collected by the operator? Or are you also addressing data collected by the regulator? LINDA DAUGHERTY: (Adjusting microphone)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on any of these alternatives to hydrostatic testing in California? JULIE HALLIGAN: Well, I think what we've found in PG&E's service territory, at least, is that we haven't seen an aggressive effort to make their pipes piggable, if you will, and we	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data collection. Are you thinking specifically of data collected by the operator? Or are you also addressing data collected by the regulator? LINDA DAUGHERTY: (Adjusting microphone) I think we're good. I would say that we need to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on any of these alternatives to hydrostatic testing in California? JULIE HALLIGAN: Well, I think what we've found in PG&E's service territory, at least, is that we haven't seen an aggressive effort to make their pipes piggable, if you will, and we haven't seen a a program to take the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data collection. Are you thinking specifically of data collected by the operator? Or are you also addressing data collected by the regulator? LINDA DAUGHERTY: (Adjusting microphone) I think we're good. I would say that we need to look at both areas the we found through your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on any of these alternatives to hydrostatic testing in California? JULIE HALLIGAN: Well, I think what we've found in PG&E's service territory, at least, is that we haven't seen an aggressive effort to make their pipes piggable, if you will, and we haven't seen a a program to take the grandfathered pipe and either make it either	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data collection. Are you thinking specifically of data collected by the operator? Or are you also addressing data collected by the regulator? LINDA DAUGHERTY: (Adjusting microphone) I think we're good. I would say that we need to look at both areas the we found through your investigation, through our own investigation of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And I would not this may be stretching a little bit, but I think people need to keep in mind, in addition to requalifying pipe through these types of tools, through repair or rehabilitation, there's always an alternative of replacement. CHAIRMAN HERSMAN: And maybe, unless you want to add something to that, CPUC, I think Ms. Halligan, you were really focused on this comment earlier. And I know your mic hasn't worked for you. But, have we seen proactive action on any of these alternatives to hydrostatic testing in California? JULIE HALLIGAN: Well, I think what we've found in PG&E's service territory, at least, is that we haven't seen an aggressive effort to make their pipes piggable, if you will, and we haven't seen a a program to take the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	then we'll go through the parties on the Board of Inquiry. MR. TRAINOR: I have a question for Ms. Daugherty. A few minutes ago you mentioned the need for prescriptive data. I think it was in response to Member Rosekind's question. You mentioned data recording as an example of where more prescriptive methods might be necessary. My question to you is, you talked about the need for changing our approach to data collection. Are you thinking specifically of data collected by the operator? Or are you also addressing data collected by the regulator? LINDA DAUGHERTY: (Adjusting microphone) I think we're good. I would say that we need to look at both areas the we found through your

	&E Gas Transmission Pipeline - DAY 2		March 2, 201
	Page 602		Page 604
1	should have. That's why we issued the advisory,	1	That might be a piece of information
	based on your recommendation. It is an important	2	that would be useful. It might help us better
	issue.		assess the nation's infrastructure.
4	If you found a risk assessment based on	4	MR. TRAINOR: Thank you.
	data, then you need to have the best data	5	RAVI CHHATRE: I have a question both of
	available.	6	Mr. Clark and Ms. Daugherty.
7	Now, having said that, you can't create	7	And this leads us to Mr. Salas's
8	data that you from the past. You can't create	· ·	statement yesterday regarding RCV and ASV. And
	records of something you that are gone.		one comment was regarding the technical hurdles
10	Yes?		using these valves.
11	MR. TRAINOR: I understand. But what	11	Does PG&E or PHMSA have any comments on
	I'm trying to get to is, you mentioned that, as a		them? Have they used them successfully or
	regulator, you need to determine whether the		unsuccessfully?
	operators are doing a good job.	14	LINDA DAUGHERTY: I would like to
15	LINDA DAUGHERTY: Uh-huh.		comment on that.
16	MR. TRAINOR: And it seems to me that	16	I would mention that we have recently
	what we've discussed has been looking at what the		issued an ANPRM on our liquid side, and will
	operators are collecting. And we found through	1	
	earlier today, with the mail-in and the survey,		asks that very question: Should ASVs or RCVs have
	for example, this does not appear to be a very		a different use? And should the government
	productive effort based on the number of responses		require those? And should they be installed?
	we see.	22	Internal management rules led the way
	Page 603		Page 605
1	It seems to me that the regulator can	1	with rule-making that said operators should
2	also collect data that would indicate whether the	2	consider those valves in the placement of those to
3	operators are doing an effective job.	3	protect ASV. Now, we're coming back to the
4	LINDA DAUGHERTY: There are two aspects	4	broader audience and saying, we need to revisit
5	that there is the one the aspect that the		
6		5	this and determine if we need to require those in
	operator collects data that we review during an		this and determine if we need to require those in a larger setting.
	operator collects data that we review during an inspection for very specific programs, perhaps a		-
7	inspection for very specific programs, perhaps a public awareness program.	6 7	a larger setting.
7 8 9	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state	6 7 8 9	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is
7 8 9	inspection for very specific programs, perhaps a public awareness program.	6 7 8 9	a larger setting. So yes, we believe those are very important.
7 8 9 10 11	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure,	6 7 8 9 10 11	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in
7 8 9 10 11	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends.	6 7 8 9 10 11 12	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we
7 8 9 10 11 12 13	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends. MR. TRAINOR: Can you give me an example	6 7 8 9 10 11 12 13	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we should require the installations of automatic
7 8 9 10 11 12 13	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends. MR. TRAINOR: Can you give me an example of	6 7 8 9 10 11 12 13	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we should require the installations of automatic shutoff valves or remotely controlled valves.
7 8 9 10 11 12 13	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends. MR. TRAINOR: Can you give me an example of LINDA DAUGHERTY: Yes	6 7 8 9 10 11 12 13 14 15	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we should require the installations of automatic shutoff valves or remotely controlled valves. As a matter of fact, one of the first
7 8 9 10 11 12 13 14	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends. MR. TRAINOR: Can you give me an example of LINDA DAUGHERTY: Yes MR. TRAINOR: such data?	6 7 8 9 10 11 12 13 14 15	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we should require the installations of automatic shutoff valves or remotely controlled valves. As a matter of fact, one of the first issues that we addressed in this regard was to
7 8 9 10 11 12 13 14 15 16 17	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends. MR. TRAINOR: Can you give me an example of LINDA DAUGHERTY: Yes MR. TRAINOR: such data? LINDA DAUGHERTY: Actually, there was	6 7 8 9 10 11 12 13 14 15 16 17	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we should require the installations of automatic shutoff valves or remotely controlled valves. As a matter of fact, one of the first issues that we addressed in this regard was to order PG&E to undertake a study of where they
7 8 9 10 11 12 13 14 15 16 17 18	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends. MR. TRAINOR: Can you give me an example of LINDA DAUGHERTY: Yes MR. TRAINOR: such data? LINDA DAUGHERTY: Actually, there was one that was brought up. I was asked if we had	6 7 8 9 10 11 12 13 14 15 16 17 18	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we should require the installations of automatic shutoff valves or remotely controlled valves. As a matter of fact, one of the first issues that we addressed in this regard was to order PG&E to undertake a study of where they might place automatic or remotely controlled
7 8 9 10 11 12 13 14 15 16 17 18 19	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends. MR. TRAINOR: Can you give me an example of LINDA DAUGHERTY: Yes MR. TRAINOR: such data? LINDA DAUGHERTY: Actually, there was one that was brought up. I was asked if we had specific data on the number of miles that had been	6 7 8 9 10 11 12 13 14 15 16 17 18	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we should require the installations of automatic shutoff valves or remotely controlled valves. As a matter of fact, one of the first issues that we addressed in this regard was to order PG&E to undertake a study of where they
7 8 9 10 11 12 13 14 15 16 17 18 19 20	<pre>inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends. MR. TRAINOR: Can you give me an example of LINDA DAUGHERTY: Yes MR. TRAINOR: such data? LINDA DAUGHERTY: Actually, there was one that was brought up. I was asked if we had specific data on the number of miles that had been hydrostatically tested. I said I don't know. I</pre>	6 7 8 9 10 11 12 13 14 15 16 17 18	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we should require the installations of automatic shutoff valves or remotely controlled valves. As a matter of fact, one of the first issues that we addressed in this regard was to order PG&E to undertake a study of where they might place automatic or remotely controlled valve. And we did that very early on, soon
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	inspection for very specific programs, perhaps a public awareness program. The other aspect is PHMSA and our state partners need to have data in order to accurately assess the risks on the national infrastructure, and look at trends. MR. TRAINOR: Can you give me an example of LINDA DAUGHERTY: Yes MR. TRAINOR: such data? LINDA DAUGHERTY: Actually, there was one that was brought up. I was asked if we had specific data on the number of miles that had been	6 7 8 9 10 11 12 13 14 15 16 17 18 19	a larger setting. So yes, we believe those are very important. RICHARD CLARK: At the PG&E, this is very much as I indicated in my answer to the city. This is very much a high priority item for us in our rule-making to consider whether or not we should require the installations of automatic shutoff valves or remotely controlled valves. As a matter of fact, one of the first issues that we addressed in this regard was to order PG&E to undertake a study of where they might place automatic or remotely controlled valve. And we did that very early on, soon

PG	&E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 606		Page 608
4	out of time. Will it be okay? (Adjusting	-	can bear it or not, I don't know. That's an issue
		1	
	microphone) CCP and technical problems with		that will be discussed.
3	these valves that makes the use questionable?	3	,
4	RICHARD CLARK: That's an unknown for us	4	process, we are required to do a cost-benefit.
5	at this point. That's why we're putting it	5	That's part of the rule-making process. So we
6	through a rule-making to examine it thoroughly.	6	don't know where that will end up.
7	RAVI CHHATRE: Thank you. I pass on to	7	MR. NICHOLSON: And actually, a
		8	cost-benefit was done, I think, in the 1999
9	MR. NICHOLSON: I'd like to follow up on		report; was that correct?
	-		•
	the same subject, really, and get Mr. Metro's	10	LINDA DAUGHERTY: I believe so. I have
11	thinking on RSVs and SVUs.	1	seen estimates that replacing 50 percent of valves
12	Are other states using these valves?		would be very much in the millions, like 600
13	PAUL METRO: I can't tell you off the	13	million. It would be very, very costly. So, it's
14	top of my head. I know looking at the issue	14	something that we have to consider.
	from the 30,000 foot level is that while they	15	MR. NICHOLSON: Okay.
	are a very good idea and are needed, there's	16	
	appropriate places to install these valves, and	17	
	appropriate conditions.	18	the policy memo regarding ASVs and RCVs?
19	And we need a feasibility study done to	19	DENNIS LEE: Yes, I believe we looked at
	determine those thresholds where the proper places	20	it.
	are and what the appropriate places are for these	21	MR. NICHOLSON: Was there a finding?
22	valves to be installed.	22	DENNIS LEE: No, there wasn't.
		L	
	Page 607		Page 609
-		-	-
1	MR. NICHOLSON: And Ms. Daugherty, I	1	MR. NICHOLSON: That's all I have.
2	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I	2	MR. NICHOLSON: That's all I have. Anything else?
2	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs.	2 3	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the
2 3 4	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are	2 3 4	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the
2 3 4	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs.	2 3 4	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the
2 3 4	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are	2 3 4	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the
2 3 4 5 6	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making?	2 3 4 5 6	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses.
2 3 4 5 6 7	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection,	2 3 4 5 6	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno?
2 3 4 5 6 7 8	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps	2 3 4 5 6 7 8	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on
2 3 4 5 6 7 8 9	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I	2 3 4 5 6 7 8 9	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding
2 3 4 5 6 7 8 9 10	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report.	2 3 4 5 6 7 8 9 10	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and
2 3 4 5 6 7 8 9 10 11	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the	2 3 4 5 6 7 8 9 10	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have
2 3 4 5 6 7 8 9 10 11 12	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making	2 3 4 5 6 7 8 9 10 11 12	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential
2 3 4 5 6 7 8 9 10 11 12 13	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt	2 3 4 5 6 7 8 9 10 11 12 13	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt with it know, it's quite a it's quite a system.	2 3 4 5 6 7 8 9 10 11 12 13 14	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system replacement? Pipeline replacement as part of a
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt	2 3 4 5 6 7 8 9 10 11 12 13 14	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt with it know, it's quite a it's quite a system.	2 3 4 5 6 7 8 9 10 11 12 13 14	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system replacement? Pipeline replacement as part of a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt with it know, it's quite a it's quite a system. You have to go through you propose the idea.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system replacement? Pipeline replacement as part of a best practice and/or regulation?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt with it know, it's quite a it's quite a system. You have to go through you propose the idea. Sometimes the best solutions do not make it through simply because of the cost-benefit. We	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system replacement? Pipeline replacement as part of a best practice and/or regulation? RICHARD CLARK: Thank you. Certainly we're looking at that, absolutely. I mean, that's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt with it know, it's quite a it's quite a system. You have to go through you propose the idea. Sometimes the best solutions do not make it through simply because of the cost-benefit. We can look at, ideally, it would be wonderful if we	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system replacement? Pipeline replacement as part of a best practice and/or regulation? RICHARD CLARK: Thank you. Certainly we're looking at that, absolutely. I mean, that's part of bringing the rate-making into and more
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt with it know, it's quite a it's quite a system. You have to go through you propose the idea. Sometimes the best solutions do not make it through simply because of the cost-benefit. We can look at, ideally, it would be wonderful if we could replace all older pipe and we can put valves	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system replacement? Pipeline replacement as part of a best practice and/or regulation? RICHARD CLARK: Thank you. Certainly we're looking at that, absolutely. I mean, that's part of bringing the rate-making into and more closely aligning the rate-making with the safety
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt with it know, it's quite a it's quite a system. You have to go through you propose the idea. Sometimes the best solutions do not make it through simply because of the cost-benefit. We can look at, ideally, it would be wonderful if we could replace all older pipe and we can put valves at very, very frequent intervals.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system replacement? Pipeline replacement as part of a best practice and/or regulation? RICHARD CLARK: Thank you. Certainly we're looking at that, absolutely. I mean, that's part of bringing the rate-making into and more closely aligning the rate-making with the safety work that's going on and the maintenance and that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt with it know, it's quite a it's quite a system. You have to go through you propose the idea. Sometimes the best solutions do not make it through simply because of the cost-benefit. We can look at, ideally, it would be wonderful if we could replace all older pipe and we can put valves at very, very frequent intervals. The fact of the matter is, there's a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system replacement? Pipeline replacement as part of a best practice and/or regulation? RICHARD CLARK: Thank you. Certainly we're looking at that, absolutely. I mean, that's part of bringing the rate-making with the safety work that's going on and the maintenance and that sort of thing, is to to take a look at pipeline
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. NICHOLSON: And Ms. Daugherty, I think you answered my question. The last report I saw was 1999 from DOT on ASVs and RCVs. Is there something more recent? Or are you going straight into the rule-making? LINDA DAUGHERTY: To my recollection, there is not anything more recent other than internal reviews and discussions, and perhaps discussions with some of our stakeholders. I don't think there's a formal report. I would say that, when we go into the ANPRM process we do trigger the full rule-making process which is, as those of you that have dealt with it know, it's quite a it's quite a system. You have to go through you propose the idea. Sometimes the best solutions do not make it through simply because of the cost-benefit. We can look at, ideally, it would be wonderful if we could replace all older pipe and we can put valves at very, very frequent intervals.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. NICHOLSON: That's all I have. Anything else? RAVI CHHATRE: Madam Chairman, the technical panel has no more questions for the witnesses. CHAIRMAN HERSMAN: Do any of the parties have questions? City of San Bruno? CONNIE JACKS: Just a quick follow-up on the discussion you were just having regarding replacement valves. And clearly understanding and recognizing the enormous potential cost, have either of your agencies considered the potential value of rules that might consider system replacement? Pipeline replacement as part of a best practice and/or regulation? RICHARD CLARK: Thank you. Certainly we're looking at that, absolutely. I mean, that's part of bringing the rate-making into and more closely aligning the rate-making with the safety work that's going on and the maintenance and that

PG	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 610		Page 612
1	encourage it when we feel it is necessary.	1	going to be one or the other.
2	LINDA DAUGHERTY: On the federal side	2	And from a risk assessment strategy, I
	the replacement could be discussed as best		would look at replacing the bare steel and the
	practices. However, I will say that we are		cast iron first.
	considering how some of these infrastructure	5	JEFF WIESE: Thank you.
1	issues can be addressed in the long-term.	6	And then lastly, for Ms. Daugherty
7	I would also mention that we have		first of all, I appreciate Vice Chairman Hart's
· ·	suggested to certain pipeline operators that	1	comments. He and Member Sumwalt and I have been
1	segments of the line that have been shown to have		in a number of interagency committees together,
	been problematic be replaced. And some of those	1	which I always find fascinating. And NTSB has led
	lines are being replaced.		the way on a lot of initiatives.
12	So it may not always require a	12	Are there any other forums,
	rule-making solution to obtain good results for		Ms. Daugherty, that you might want to comment on?
	the public.	14	LINDA DAUGHERTY: Yes. Thank you for
14	CONNIE JACKS: Thank you.		reminding me about the oversight.
16	CHAIRMAN HERSMAN: Are there any other	16	We are reaching out internationally.
17	questions?		There are a lot of countries that have pipeline
18	JEFF WIESE: Sorry about that. You		infrastructure. Some of it's older than ours, so
19	know, I think if you allow me		we are reaching out to them.
20	CHAIRMAN HERSMAN: No need to apologize,	20	We also hope to have an international
	Mr. Wiese.		forum this summer to pull some of our counterparts
22	JEFF WIESE: I'd like to follow the	1	around the world to sit down and talk about how we
22	JEIT WIESE I'd like to follow the	22	around the world to sit down and talk about now we
	Page 611		B 010
			Page 613
1	line of questioning that the city began there,	1	address some of these infrastructure issues.
1		1	-
2	line of questioning that the city began there,		address some of these infrastructure issues.
2 3	line of questioning that the city began there, because I think we're very much interested,	2 3	address some of these infrastructure issues. Thank you.
2 3 4	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state	2 3	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional
2 3 4 5	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA	2 3 4	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties?
2 3 4 5	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out	2 3 4 5 6	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener.
2 3 4 5 6 7	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there.	2 3 4 5 6 7	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this
2 3 4 5 6 7 8	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in	2 3 4 5 6 7 8	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and
2 3 4 5 6 7 8 9	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some	2 3 4 5 6 7 8	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to
2 3 4 5 6 7 8 9 10	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot.	2 3 4 5 6 7 8 9 10	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level.
2 3 4 5 6 7 8 9 10 11	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal	2 3 4 5 6 7 8 9 10 11	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations
2 3 4 5 6 7 8 9 10 11	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover	2 3 4 5 6 7 8 9 10 11 12	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to
2 3 4 5 6 7 8 9 10 11 12 13	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover those costs?	2 3 4 5 6 7 8 9 10 11 12 13	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to PHMSA's regulations in terms of at the state
2 3 4 5 6 7 8 9 10 11 12 13 14	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover those costs? So I didn't know if Mr. Metro wanted to	2 3 4 5 6 7 8 9 10 11 12 13	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to PHMSA's regulations in terms of at the state level? In other words, do you just flow down a
2 3 4 5 6 7 8 9 10 11 12 13 14 15	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover those costs? So I didn't know if Mr. Metro wanted to comment on any kind of innovative approaches he	2 3 4 5 6 7 8 9 10 11 12 13 14	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to PHMSA's regulations in terms of at the state level? In other words, do you just flow down a copy of them? Do you write your own regulations?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover those costs? So I didn't know if Mr. Metro wanted to comment on any kind of innovative approaches he may have seen in different states, or work that	2 3 4 5 6 7 8 9 10 11 12 13 14 15	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to PHMSA's regulations in terms of at the state level? In other words, do you just flow down a copy of them? Do you write your own regulations? What's the relationship?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover those costs? So I didn't know if Mr. Metro wanted to comment on any kind of innovative approaches he may have seen in different states, or work that may be going on at the state level.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to PHMSA's regulations in terms of at the state level? In other words, do you just flow down a copy of them? Do you write your own regulations? What's the relationship? RICHARD CLARK: Well, we, in our general
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover those costs? So I didn't know if Mr. Metro wanted to comment on any kind of innovative approaches he may have seen in different states, or work that may be going on at the state level. PAUL METRO: Many states have pipeline	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to PHMSA's regulations in terms of at the state level? In other words, do you just flow down a copy of them? Do you write your own regulations? What's the relationship? RICHARD CLARK: Well, we, in our general order 112 which was first adopted in 1961, we set
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover those costs? So I didn't know if Mr. Metro wanted to comment on any kind of innovative approaches he may have seen in different states, or work that may be going on at the state level. PAUL METRO: Many states have pipeline replacement programs.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to PHMSA's regulations in terms of at the state level? In other words, do you just flow down a copy of them? Do you write your own regulations? What's the relationship? RICHARD CLARK: Well, we, in our general order 112 which was first adopted in 1961, we set the standards at our level for pressure testing in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover those costs? So I didn't know if Mr. Metro wanted to comment on any kind of innovative approaches he may have seen in different states, or work that may be going on at the state level. PAUL METRO: Many states have pipeline replacement programs. Now, when you talk about putting in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to PHMSA's regulations in terms of at the state level? In other words, do you just flow down a copy of them? Do you write your own regulations? What's the relationship? RICHARD CLARK: Well, we, in our general order 112 which was first adopted in 1961, we set the standards at our level for pressure testing in a number of other areas.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	line of questioning that the city began there, because I think we're very much interested, clearly, as city regulators. And CPUC and PHMSA would like nothing more, and the rest of our state partners, than have brand new pipeline systems out there. So, I'm just interested more in exploiting some of the impediments and I know some of the states have been thinking about this a lot. But they have different impediments on the federal level. It goes to, how does a company recover those costs? So I didn't know if Mr. Metro wanted to comment on any kind of innovative approaches he may have seen in different states, or work that may be going on at the state level. PAUL METRO: Many states have pipeline replacement programs. Now, when you talk about putting in valves, there's a limited source of dollars that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	address some of these infrastructure issues. Thank you. CHAIRMAN HERSMAN: No additional questions from the parties? Member Weener. MEMBER WEENER: I'd like to address this to CPUC. We've talked a lot about regulations and the operations at the federal level. I'd like to understand how that flows down to the state level. How does that what regulations what are the states' regulations relative to PHMSA's regulations in terms of at the state level? In other words, do you just flow down a copy of them? Do you write your own regulations? What's the relationship? RICHARD CLARK: Well, we, in our general order 112 which was first adopted in 1961, we set the standards at our level for pressure testing in a number of other areas. When the Department of Transportation
	Page 614		Page 616
--	--	--	--
1	incorporated those rules in, and any modifications	1	RICHARD CLARK: They're both. They're
	and updates to those rules.		primarily paperwork exercises, however, but but
3	We have the authority at the state level		we a number of years ago across all of our
	to expand upon those rules, and that's what we're	1	safety programs said that we need to test what
	doing. We've done it in the past in terms of some		we find. We need to look and go out and look over
			-
	record-keeping issues. We're doing it now much		the shoulder of the person who's doing the
	more we're taking a look at how we can broaden		inspection for the utility, or the maintenance
	and deepen that effort.	1	work for the utility. And if they're an
9	MEMBER WEENER: Does PHMSA in any way		inspector, we need to, one, make sure that they're
	then certify the state? Or are you are you		finding what they're supposed to find; secondly,
	completely independent?		that they're doing what they're supposed to do
12	RICHARD CLARK: They review they		with what it is that they're finding.
	review our programs, and I've forgotten whether	13	So we we don't simply rely upon the
	we actually have a certification in this program	1	records that we see. We go out and we verify that
	or not. We do, right? Right. I'm sorry. I have		that's that which we see in the records is that
16	so many programs, sometimes it's hard to recall.	16	which is happening on the ground.
17	But we do have a certification, yes.	17	MEMBER WEENER: And then what sort of
18	MEMBER WEENER: Is this an annual	18	enforcement capabilities do you have when you see
19	certification?	19	something that you didn't want to see?
20	RICHARD CLARK: Yes.	20	RICHARD CLARK: We have before the
21	MEMBER WEENER: Now, then, CPUC has an	21	ability to open an order instituting
22	inspector cadre, I presume.		investigation well, we have I should back up
	Page 615		Page 617
1	-	1	-
1	RICHARD CLARK: Yes.	1	a little bit.
2	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time	2	a little bit. We have a progressive enforcement scheme
2 3	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors?	2 3	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we
2 3 4	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes.	2 3 4	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the
2 3 4 5	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything	2 3 4 5	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side
2 3 4 5 6	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines?	2 3 4 5 6	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs
2 3 4 5 6 7	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current	2 3 4 5 6 7	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we
2 3 4 5 6 7 8	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety	2 3 4 5 6 7 8	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe,
2 3 4 5 6 7 8 9	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety,	2 3 4 5 6 7 8 9	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to
2 3 4 5 6 7 8 9 10	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety.	2 3 4 5 6 7 8 9 10	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan.
2 3 4 5 6 7 8 9 10 11	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San	2 3 4 5 6 7 8 9 10 11	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're
2 3 4 5 6 7 8 9 10 11 12	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people	2 3 4 5 6 7 8 9 10 11 12	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care
2 3 4 5 6 7 8 9 10 11 12 13	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side	2 3 4 5 6 7 8 9 10 11 12 13	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a
2 3 4 5 6 7 8 9 10 11 12 13 14	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side does electric safety and communication safety.	2 3 4 5 6 7 8 9 10 11 12 13 14	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a pattern of egregious behavior, then we have the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side does electric safety and communication safety. MEMBER WEENER: Okay. So these folks,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a pattern of egregious behavior, then we have the ability to take an enforcement action against them
2 3 4 5 6 7 8 9 10 11 12 13 14 15	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side does electric safety and communication safety. MEMBER WEENER: Okay. So these folks, then, conduct audits and inspections?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a pattern of egregious behavior, then we have the ability to take an enforcement action against them through an order instituting investigation at the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side does electric safety and communication safety. MEMBER WEENER: Okay. So these folks, then, conduct audits and inspections? RICHARD CLARK: Yes. And investigations	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a pattern of egregious behavior, then we have the ability to take an enforcement action against them
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side does electric safety and communication safety. MEMBER WEENER: Okay. So these folks, then, conduct audits and inspections?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a pattern of egregious behavior, then we have the ability to take an enforcement action against them through an order instituting investigation at the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side does electric safety and communication safety. MEMBER WEENER: Okay. So these folks, then, conduct audits and inspections? RICHARD CLARK: Yes. And investigations	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a pattern of egregious behavior, then we have the ability to take an enforcement action against them through an order instituting investigation at the commission.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side does electric safety and communication safety. MEMBER WEENER: Okay. So these folks, then, conduct audits and inspections? RICHARD CLARK: Yes. And investigations of accidents.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a pattern of egregious behavior, then we have the ability to take an enforcement action against them through an order instituting investigation at the commission. We're exploring now the Pennsylvania
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side does electric safety and communication safety. MEMBER WEENER: Okay. So these folks, then, conduct audits and inspections? RICHARD CLARK: Yes. And investigations of accidents. MEMBER WEENER: And investigations. The	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a pattern of egregious behavior, then we have the ability to take an enforcement action against them through an order instituting investigation at the commission. We're exploring now the Pennsylvania model and the the Oregon model, where they have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	RICHARD CLARK: Yes. MEMBER WEENER: Are these full-time inspectors? RICHARD CLARK: Yes. MEMBER WEENER: They don't do anything else other than pipelines? RICHARD CLARK: That's the current situation, yes. We used to have our entire safety and reliability branch do electric safety, communications safety and gas safety. But about a year prior to, I think, San Bruno, we decided that we needed to have people specialize in pipeline safety, and the other side does electric safety and communication safety. MEMBER WEENER: Okay. So these folks, then, conduct audits and inspections? RICHARD CLARK: Yes. And investigations of accidents. MEMBER WEENER: And investigations. The audits and inspections, are they a paperwork	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	a little bit. We have a progressive enforcement scheme that we use, or staged enforcement scheme that we use, which begins with telling the the operator and this applies to the electric side as well as the gas side all of our programs have an escalated enforcement program where we tell them to fix it within a particular timeframe, give us a corrective action plan, and adhere to that corrective action plan. If we see that either that they're not responding in a timely manner and taking care of their responsibilities, or we're seeing a pattern of egregious behavior, then we have the ability to take an enforcement action against them through an order instituting investigation at the commission. We're exploring now the Pennsylvania model and the the Oregon model, where they have statutory authority to impose just upon natural

10	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 618		Page 620
1	to be able to issue a citation.	1	databases, and we do use that to help target our
2	MEMBER WEENER: Thank you for clarifying		inspective activities.
	that.	3	Because before we go out and do a GO 112
4	RICHARD CLARK: Very welcome.	4	audit, we look at the problems that we had in the
5	CHAIRMAN HERSMAN: Member Rosekind.		past; we look at any sorts of trends that are
6	MEMBER ROSEKIND: Thank you for taking	1	developing, and then we go out and we do our
7	us through your evaluation. And it's good to hear		audit.
8	the state of the industry is 97 percent.	8	And again, in our audit, we look at the
9	So, just to keep this balanced, when you	9	paperwork, and then we then we test that on the
10		10	
11	How do they get collated into how an	11	MEMBER ROSEKIND: And quantify that a
1	organization is doing?		little bit more.
13	And then, can you benchmark that against	13	RICHARD CLARK: Yes.
14		14	MEMBER ROSEKIND: And the last question,
15	RICHARD CLARK: Well, in reality, we		
1	only have two operators in California, so it's		helped sort of clarify it for me, actually.
17	Pacific Gas and Electric and then the civil	17	I was wondering what happens when
- ·	utilities, San Diego Gas and Electric.		there's sort of a difference between a federal and
19	So it's it's more of a qualitative	19	
1	assessment than it is a quantitative assessment of	20	
	how each one of the utilities are performing.		something that nobody had ever done.
22	And then, in terms of looking out at	22	How does that get addressed and
22	And then, in terms of looking out at	22	The does that get addressed and
	Page 619		Page 621
1	what other the other utilities across the	1	resolved?
	what other the other utilities across the nation are doing, that's an area of improvement	1	
2		2	resolved?
2 3	nation are doing, that's an area of improvement	2 3	resolved? RICHARD CLARK: Well, it's first
2 3 4	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake,	2 3	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends
2 3 4 5	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for	2 3 4 5	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it.
2 3 4 5 6	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their	2 3 4 5 6	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to
2 3 4 5 6 7	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in	2 3 4 5 6 7	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as
2 3 4 5 6 7	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by	2 3 4 5 6 7	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate
2 3 4 5 6 7 8 9	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance.	2 3 4 5 6 7 8 9	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so.
2 3 4 5 6 7 8 9 10	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to	2 3 4 5 6 7 8 9 10	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When
2 3 4 5 6 7 8 9 10 11	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within	2 3 4 5 6 7 8 9 10 11	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of
2 3 4 5 6 7 8 9 10 11 12	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over	2 3 4 5 6 7 8 9 10 11 12	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent
2 3 4 5 6 7 8 9 10 11 12 13	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over time or to set thresholds to where some kind of	2 3 4 5 6 7 8 9 10 11 12	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent than the federal regulations, in fact, that's a
2 3 4 5 6 7 8 9 10 11 12 13 14	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over time or to set thresholds to where some kind of intervention or enforcement is required, it helps	2 3 4 5 6 7 8 9 10 11 12 13 14	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent than the federal regulations, in fact, that's a great thing. They know the circumstances.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over time or to set thresholds to where some kind of intervention or enforcement is required, it helps you to quantify those, and gives you a sense	2 3 4 5 6 7 8 9 10 11 12 13 14 15	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent than the federal regulations, in fact, that's a great thing. They know the circumstances. So many states adopt the federal
2 3 4 5 6 7 8 9 10 11 12 13 14 15	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over time or to set thresholds to where some kind of intervention or enforcement is required, it helps you to quantify those, and gives you a sense across the country. But right now that's not	2 3 4 5 6 7 8 9 10 11 12 13 14 15	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent than the federal regulations, in fact, that's a great thing. They know the circumstances. So many states adopt the federal regulations directly. Some have more robust and more stringent regulations, which they are
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over time or to set thresholds to where some kind of intervention or enforcement is required, it helps you to quantify those, and gives you a sense across the country. But right now that's not really the approach. It's more qualitative.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent than the federal regulations, in fact, that's a great thing. They know the circumstances. So many states adopt the federal regulations directly. Some have more robust and more stringent regulations, which they are
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over time or to set thresholds to where some kind of intervention or enforcement is required, it helps you to quantify those, and gives you a sense across the country. But right now that's not really the approach. It's more qualitative. RICHARD CLARK: That's with respect to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent than the federal regulations, in fact, that's a great thing. They know the circumstances. So many states adopt the federal regulations directly. Some have more robust and more stringent regulations, which they are entitled to do.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over time or to set thresholds to where some kind of intervention or enforcement is required, it helps you to quantify those, and gives you a sense across the country. But right now that's not really the approach. It's more qualitative. RICHARD CLARK: That's with respect to the integrity management program.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent than the federal regulations, in fact, that's a great thing. They know the circumstances. So many states adopt the federal regulations directly. Some have more robust and more stringent regulations, which they are entitled to do. MEMBER ROSEKIND: Great. Thank you.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over time or to set thresholds to where some kind of intervention or enforcement is required, it helps you to quantify those, and gives you a sense across the country. But right now that's not really the approach. It's more qualitative. RICHARD CLARK: That's with respect to the integrity management program. Now, as I talked about with the other member, we have general order 112 where we do	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent than the federal regulations, in fact, that's a great thing. They know the circumstances. So many states adopt the federal regulations directly. Some have more robust and more stringent regulations, which they are entitled to do. MEMBER ROSEKIND: Great. Thank you. CHAIRMAN HERSMAN: That's great.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	nation are doing, that's an area of improvement for us that PHMSA has requested that we undertake, and our that was a it was an opportunity for improvement that they pointed out to us in their last audit. And they've agreed to work with us in terms of defining what those criterion are by which we can judge the performance. MEMBER ROSEKIND: So you'll be able to take those audits again, the benchmark within the state is small, but looking at a company over time or to set thresholds to where some kind of intervention or enforcement is required, it helps you to quantify those, and gives you a sense across the country. But right now that's not really the approach. It's more qualitative. RICHARD CLARK: That's with respect to the integrity management program. Now, as I talked about with the other	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	resolved? RICHARD CLARK: Well, it's first resolved via good communications with our friends at PHMSA. And we talk about it. And then if we decide that we want to take a different approach at the state level, as long as it doesn't interfere with interstate commerce, we're free to do so. LINDA DAUGHERTY: I would agree. When the state always has the prerogative of implementing regulations that are more stringent than the federal regulations, in fact, that's a great thing. They know the circumstances. So many states adopt the federal regulations directly. Some have more robust and more stringent regulations, which they are entitled to do. MEMBER ROSEKIND: Great. Thank you. CHAIRMAN HERSMAN: That's great. Because that's exactly the direction I wanted to

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	regulations than the federal regulations. But can they have less stringent regulations than the federal regulations? LINDA DAUGHERTY: No. CHAIRMAN HERSMAN: Okay. So they must meet, or incorporate, those regulations. LINDA DAUGHERTY: That is correct. CHAIRMAN HERSMAN: Mr. Metro, how many states actually go beyond the federal regulations in certain areas? PAUL METRO: I don't have that information. That might be something that PHMSA collects in their certification process. LINDA DAUGHERTY: Go ahead. ZACH BARRETT: We actually do not collect that information. States have been more stringent, but there have been some surveys that we conducted with the National Association of Pipeline Safety Representatives for I think quite a few of a majority of the states have some regulations usually in the reporting area that's more more restrictive than what PHMSA has.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Mr. Clark, you had a conversation with the technical panel, and we have FTEs, "full-time equivalents"; you have PYs, you know, "person years." And so you have a you have less than 20 PYs that work on pipeline safety. RICHARD CLARK: That's correct. CHAIRMAN HERSMAN: How many FTEs do you have on the federal side of investigators? LINDA DAUGHERTY: We're currently authorized a little over 200. I think the number is 206. With, you know, turnover, we're probably just at 200 as far as the entire organization. Roughly half of that, a little over half of that,
	Page 623		Page 625
1	CHAIRMAN HERSMAN: So, for a lot of	1	percent of the pipeline mileage, simply because of
	,	- -	percent of the pipeline inneage, simply because of
	people watching this, this is an intrastate		the intrastate facilities.
3	people watching this, this is an intrastate pipeline.	2 3	the intrastate facilities. And they, roughly, augment the federal
3 4	people watching this, this is an intrastate pipeline. And the feds don't really have any	2 3 4	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300.
3 4 5	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right?	2 3 4 5	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have
3 4 5 6	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely	2 3 4 5 6	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of
3 4 5 6 7	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right?	2 3 4 5 6	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have
3 4 5 6 7 8	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety	2 3 4 5 6 7 8	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities.
3 4 5 6 7 8 9 10	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their	2 3 4 5 6 7 8 9 10	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year
3 4 5 6 7 8 9 10 11	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could,	2 3 4 5 6 7 8 9 10 11	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the
3 4 5 6 7 8 9 10 11 12	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could, on for a given incident, for a given isolated	2 3 4 5 6 7 8 9 10 11 12	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the total program costs for the program that year was
3 4 5 6 7 8 9 10 11 12 13	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could, on for a given incident, for a given isolated thing, we could take additional action if if	2 3 4 5 6 7 8 9 10 11 12 13	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the total program costs for the program that year was federal dollars.
3 4 5 6 7 8 9 10 11 12 13	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could, on for a given incident, for a given isolated	2 3 4 5 6 7 8 9 10 11 12 13 14	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the total program costs for the program that year was
3 4 5 6 7 8 9 10 11 12 12 13 14	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could, on for a given incident, for a given isolated thing, we could take additional action if if deemed necessary. At the current time we're working with	2 3 4 5 6 7 8 9 10 11 12 13 14 15	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the total program costs for the program that year was federal dollars. We project we're in the middle of
3 4 5 6 7 8 9 10 11 12 13 14 15	 people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could, on for a given incident, for a given isolated thing, we could take additional action if if deemed necessary. At the current time we're working with California BEC. We're working well together. We're going to do some joint work in looking at 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the total program costs for the program that year was federal dollars. We project we're in the middle of looking at the and it's a reimbursable grant that the state's calendar year 2010 activities are currently taking place. They're sending us a
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could, on for a given incident, for a given isolated thing, we could take additional action if if deemed necessary. At the current time we're working with California BEC. We're working well together. We're going to do some joint work in looking at the risk assessment documents with PG&E. We're	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the total program costs for the program that year was federal dollars. We project we're in the middle of looking at the and it's a reimbursable grant that the state's calendar year 2010 activities are currently taking place. They're sending us a program cost; we're reviewing those costs and
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could, on for a given incident, for a given isolated thing, we could take additional action if if deemed necessary. At the current time we're working with California BEC. We're working well together. We're going to do some joint work in looking at the risk assessment documents with PG&E. We're going in together. We're not leading that. We're 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the total program costs for the program that year was federal dollars. We project we're in the middle of looking at the and it's a reimbursable grant that the state's calendar year 2010 activities are currently taking place. They're sending us a program cost; we're reviewing those costs and we're refunding them.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could, on for a given incident, for a given isolated thing, we could take additional action if if deemed necessary. At the current time we're working with California BEC. We're working well together. We're going to do some joint work in looking at the risk assessment documents with PG&E. We're going in together. We're not leading that. We're going in as partners in that. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the total program costs for the program that year was federal dollars. We project we're in the middle of looking at the and it's a reimbursable grant that the state's calendar year 2010 activities are currently taking place. They're sending us a program cost; we're reviewing those costs and we're refunding them. I estimate that California PUC's
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 people watching this, this is an intrastate pipeline. And the feds don't really have any jurisdiction here; is that right? ZACH BARRETT: That's not completely true. We certify the states for the safety authority over the intrastate pipeline system. We support their program with grant funding; we evaluate the program, we support them in their inspections but, you know, I think PHMSA could, on for a given incident, for a given isolated thing, we could take additional action if if deemed necessary. At the current time we're working with California BEC. We're working well together. We're going to do some joint work in looking at the risk assessment documents with PG&E. We're going in together. We're not leading that. We're 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the intrastate facilities. And they, roughly, augment the federal workforce of 200 people by an additional 300. CHAIRMAN HERSMAN: Okay. So we have about 500 assets nationwide to do oversight of pipelines, some pipeline safety activities. And so, how much of CPUC's program is supported by federal dollars, Mr. Barrett? ZACH BARRETT: For the calendar year 2009 activities, approximately 63 percent of the total program costs for the program that year was federal dollars. We project we're in the middle of looking at the and it's a reimbursable grant that the state's calendar year 2010 activities are currently taking place. They're sending us a program cost; we're reviewing those costs and we're refunding them.

Page 622

Page 624

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 9	 kind of a symbiotic relationship here between the states and the feds. We provide the federal the federal government provides resources for the states to conduct their programs. The states are providing data to the federal government for their data collection risk assessment type programs. But when we look at what, kind of, the scope of the regulatory activity is over the years, when you all went to performance-based regulations, you didn't take away any of the prescriptive regulations; you built on what was there before, what you had been doing in the past. This was another layer on that; correct? LINDA DAUGHERTY: (Nodding head) CHAIRMAN HERSMAN: What do you all think are the biggest challenges for safety regulators when it comes to oversight of performance-based programs? Where do you all fall down? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	develop, we will continue to maintain that, simply because, as you pointed out, we have a baseline of prescriptive regulations, and then we added on the performance on top of that. So we will always need people that can focus on prescriptive compliance and also performance-based. I hope I answered your question. CHAIRMAN HERSMAN: Well, maybe what I can do is share with you a couple of accidents that we've investigated in performance-based oversight where we have seen that there are problems. Maybe you can help me understand how you address these. We've looked at accidents in which there's a segment of pipeline that should have been identified as an HCA, but it wasn't by the operator. And so this is kind of, to me, a little bit similar with the situation that we have with the records here. You're relying on the operator to
	Page 627		Page 629
1	directly on that.	1	provide to you information, and you at some point
2	8		have to accept that information as valid.
	oversee. They're very difficult. They require a		Libia agong bools to Mir Clark with the
		3	
4	judgment call.	4	"trust but verify," you know, take the information
4	judgment call. For decades our instructors, mostly	4 5	"trust but verify," you know, take the information they gave you but go out and make sure that what
4 5 6	judgment call. For decades our instructors, mostly engineers, very technically oriented people who	4 5 6	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing.
4 5 6 7	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive	4 5 6 7	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first
4 5 6 7 8	judgment call. For decades our instructors, mostly engineers, very technically oriented people who	4 5 6 7 8	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing.
4 5 6 7 8 9	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had	4 5 6 7 8 9	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that,
4 5 6 7 8 9	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe.	4 5 7 8 9 10	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation
4 5 6 7 8 9 10 11 12	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate	4 5 7 8 9 10 11	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe
4 5 6 7 8 9 10 11 12 13	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate the adequacy of an operator's technical	4 5 7 8 9 10 11 12 13	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe for this segment, or whether an area should be an HCA or not. If we get into even more detail
4 5 6 7 8 9 10 11 12 13 14	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate the adequacy of an operator's technical justification. It is difficult. It's a difficult	4 5 7 8 9 10 11 12 13 14	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe for this segment, or whether an area should be an HCA or not. If we get into even more detail looking at the Kingson accident. And in that
4 5 6 7 8 9 10 11 12 13 14 15	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate the adequacy of an operator's technical justification. It is difficult. It's a difficult way of evaluating the program, but it's effective.	4 5 7 8 9 10 11 12 13 14 15	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe for this segment, or whether an area should be an HCA or not. If we get into even more detail looking at the Kingson accident. And in that accident you all identified, in their integrity
4 5 6 7 8 9 100 111 122 133 14 155 16	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate the adequacy of an operator's technical justification. It is difficult. It's a difficult way of evaluating the program, but it's effective. And we believe it's effective, and we believe the	4 5 7 8 9 10 11 12 13 14 15 16	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe for this segment, or whether an area should be an HCA or not. If we get into even more detail looking at the Kingson accident. And in that accident you all identified, in their integrity management program, some things that were not
44 56 77 88 99 100 111 122 133 144 155 166 177	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate the adequacy of an operator's technical justification. It is difficult. It's a difficult way of evaluating the program, but it's effective. And we believe it's effective, and we believe the results are showing out.	4 5 6 7 8 9 10 11 12 13 14 15 16 17	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe for this segment, or whether an area should be an HCA or not. If we get into even more detail looking at the Kingson accident. And in that accident you all identified, in their integrity management program, some things that were not included that were that should have been.
4 5 6 7 8 9 10 11 12 13 14 15 16 17	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate the adequacy of an operator's technical justification. It is difficult. It's a difficult way of evaluating the program, but it's effective. And we believe it's effective, and we believe the results are showing out. We have had challenges in convincing our	4 5 7 8 9 10 11 12 13 14 15 16 17 18	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe for this segment, or whether an area should be an HCA or not. If we get into even more detail looking at the Kingson accident. And in that accident you all identified, in their integrity management program, some things that were not included that were that should have been. You inspected their their program for
44 5 66 7 8 9 100 111 122 133 14 155 166 177 188 19	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate the adequacy of an operator's technical justification. It is difficult. It's a difficult way of evaluating the program, but it's effective. And we believe it's effective, and we believe the results are showing out. We have had challenges in convincing our own workforce that it's the right way to go.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe for this segment, or whether an area should be an HCA or not. If we get into even more detail looking at the Kingson accident. And in that accident you all identified, in their integrity management program, some things that were not included that were that should have been. You inspected their their program for their anhydrous ammonia pipe, and the inspection
44 55 66 77 88 99 100 111 122 133 144 155 166 177 188 199 200	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate the adequacy of an operator's technical justification. It is difficult. It's a difficult way of evaluating the program, but it's effective. And we believe it's effective, and we believe the results are showing out. We have had challenges in convincing our own workforce that it's the right way to go. We have right now both prescriptive	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe for this segment, or whether an area should be an HCA or not. If we get into even more detail looking at the Kingson accident. And in that accident you all identified, in their integrity management program, some things that were not included that were that should have been. You inspected their their program for their anhydrous ammonia pipe, and the inspection revealed that that they didn't have a number of
4 5 6 9 10 11 12 13 14 15 16 17 18 19 20 21	judgment call. For decades our instructors, mostly engineers, very technically oriented people who were able to go out and evaluate a prescriptive regulation by determining if the operator had checked the number of valves they were supposed to in the timeframe. Now they're required to think in a totally different manner. They have to evaluate the adequacy of an operator's technical justification. It is difficult. It's a difficult way of evaluating the program, but it's effective. And we believe it's effective, and we believe the results are showing out. We have had challenges in convincing our own workforce that it's the right way to go.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"trust but verify," you know, take the information they gave you but go out and make sure that what they're telling you is the right thing. It's very difficult, I think, on first instance or review for you all to identify that, whether it's that their underlying documentation isn't there to support the description of the pipe for this segment, or whether an area should be an HCA or not. If we get into even more detail looking at the Kingson accident. And in that accident you all identified, in their integrity management program, some things that were not included that were that should have been. You inspected their their program for their anhydrous ammonia pipe, and the inspection

Page 626

March 2, 2011 Page 628

1	Gal Gas Transmission Pipenne - DAY 2	March 2, 2011
	Page 630	Page 632
	1 regulations that were not addressed by enterprise	1 people. We may scour through records, but there's
	2 was the operator noted the following risk factors	2 some there's some familiarity we will not have.
	3 were not addressed: The seam type, results of	3 Because we look at, you know, dozens, hundreds of
	4 previous assessments, defect type, and size that	4 company plans, we will not know them as detailed
	5 the assessment method can detect a defect.	5 and in-depth as the company personnel.
	6 You gave us this plan and all of these	6 But we do bring a couple of things. We
	7 required pieces of it were missing.	7 learned from national review, or in this case, the
	8 Okay. So that was great. Somebody	8 state's review of plans. We look for triggers and
	9 actually looked at it, and they gave feedback.	9 flags, and we're trained to find those areas. We
1	But they missed one thing. They missed	10 don't catch them all. I wish we would. We do
1	11 leak history, and that wasn't part of their plan.	11 miss some.
	12 And so then, when we come back and we	12 But I think the important point is that
1	13 have 20-20 hindsight. We're coming in after the	13 we have to train our personnel to look for those
	14 fact, something's already happened, we have plenty	14 flags. We have to work side-by-side with our
	15 of time to take a look at it. But we identify	15 states, and share that information of how to look
	16 here we missed another one.	16 forward.
	17 With performance-based, it's incumbent	17 You mentioned performance regulations,
1	18 upon you to find the needle in the haystack, where	18 and I would point to a recent study done on Deep
	19 you've been tripped, where you can't find	19 Water Horizon. And that study looked at what
	20 something. And the operator has a lot of ability	20 could have been done a little bit better. And I
	21 to put forward information, and you all might not	21 believe that the results of that study said, look,
	22 have the resource 500 people for the whole	22 performance-based regulations are where we may
	1 1	
	Page 631	Page 633
	Page 631 1 country, that's not very many. That's ten open	Page 633 1 want to go. They validated the approach that we
	-	
	1 country, that's not very many. That's ten open	1 want to go. They validated the approach that we
	 country, that's not very many. That's ten open you know, ten people per state. 	 want to go. They validated the approach that we are taking.
	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but
	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the
	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then
	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks;
	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure,
1	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer.
	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see
1	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through
1	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. I would go back and mention that it is it is not the regulator's responsibility to assure that operators comply. It is the 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through performance-based plans, when you identify
1	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. I would go back and mention that it is it is not the regulator's responsibility to 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through
1 1 1 1	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. I would go back and mention that it is it is not the regulator's responsibility to assure that operators comply. It is the 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through performance-based plans, when you identify
1 1 1 1 1	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. I would go back and mention that it is it is not the regulator's responsibility to assure that operators comply. It is the operator's responsibility to assure that they 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through performance-based plans, when you identify
1 1 1 1 1 1 1 1	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. I would go back and mention that it is it is not the regulator's responsibility to assure that operators comply. It is the operator's responsibility to assure that they comply. 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through performance-based plans, when you identify deficiencies or defects? What tools do you have to get it to a
1 1 1 1 1 1 1 1 1	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. I Would go back and mention that it is it is not the regulator's responsibility to assure that operators comply. It is the operator's responsibility to assure that they comply. We know that when we go out and do 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through performance-based plans, when you identify deficiencies or defects? What tools do you have to get it to a point where you incentivize the operator to not have those defects, so that you don't have to take
1 1 1 1 1 1 1 1 1 1 1 1	 1 country, that's not very many. That's ten open 2 you know, ten people per state. 3 How can you look at all of those plans, 4 and how can you look over everyone's shoulders, 5 and how can you verify that everything they gave 6 you? You go ahead and check that that's right. 7 LINDA DAUGHERTY: You raised very good 8 points, and we are definitely well aware that it 9 is a challenge to get out to those facilities and 10 find problems. 11 I would go back and mention that it 12 is it is not the regulator's responsibility to 13 assure that operators comply. It is the 14 operator's responsibility to assure that they 15 comply. 16 We know that when we go out and do 17 inspections, we're going to do the most thorough 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through performance-based plans, when you identify deficiencies or defects? What tools do you have to get it to a point where you incentivize the operator to not have those defects, so that you don't have to take the comb through and find them? Is it the cost of doing business?
1 1 1 1 1 1 1 1 1 1 1 1 1 2	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. I would go back and mention that it is it is not the regulator's responsibility to assure that operators comply. It is the operator's responsibility to assure that they comply. We know that when we go out and do inspections, we're going to do the most thorough job we can, and we're going to look at every issue. But, we are limited on resources, and we 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through performance-based plans, when you identify deficiencies or defects? What tools do you have to get it to a point where you incentivize the operator to not have those defects, so that you don't have to take the comb through and find them? Is it the cost of doing business? Or they you know, is there a real
1 1 1 1 1 1 1 1 1 1 1 1 1 2 2	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. I I would go back and mention that it is it is not the regulator's responsibility to assure that operators comply. It is the operator's responsibility to assure that they comply. We know that when we go out and do inspections, we're going to do the most thorough job we can, and we're going to look at every issue. But, we are limited on resources, and we can only spend six weeks on an integrity 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through performance-based plans, when you identify deficiencies or defects? What tools do you have to get it to a point where you incentivize the operator to not have those defects, so that you don't have to take the comb through and find them? Is it the cost of doing business? Or they you know, is there a real disincentive for them to have an error in their
1 1 1 1 1 1 1 1 1 1 1 1 1 2 2	 country, that's not very many. That's ten open you know, ten people per state. How can you look at all of those plans, and how can you look over everyone's shoulders, and how can you verify that everything they gave you? You go ahead and check that that's right. LINDA DAUGHERTY: You raised very good points, and we are definitely well aware that it is a challenge to get out to those facilities and find problems. I would go back and mention that it is it is not the regulator's responsibility to assure that operators comply. It is the operator's responsibility to assure that they comply. We know that when we go out and do inspections, we're going to do the most thorough job we can, and we're going to look at every issue. But, we are limited on resources, and we 	 want to go. They validated the approach that we are taking. I sound repetitive, and I apologize, but it's not easy. It's hard. But it's worth the effort. If we can get the job done right, then we'll be focusing our resources on the risks; we'll be addressing threats to the infrastructure, and therefore making the public safer. CHAIRMAN HERSMAN: All right. And I see Mr. Clark wants to comment. But can I ask you both to comment on the sanctions, when you actually identify through performance-based plans, when you identify deficiencies or defects? What tools do you have to get it to a point where you incentivize the operator to not have those defects, so that you don't have to take the comb through and find them? Is it the cost of doing business? Or they you know, is there a real

PG	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2	March 2, 2011		
	Page 634		Page 636	
1	LINDA DAUGHERTY: I'll speak to that	1	As far as performance-based regulation,	
	first, simply because my mic is on.		it's not only difficult to judge whether	
3	On the federal side, we have a variety	1	performance has been achieved in the manner that	
	of enforcement mechanisms. When we find that an		you want it to be achieved, but it's also very	
	operator has not complied with our rule, we can		difficult to enforce performance-based	
	issue a warning to them, depending on the degree.	1	regulations, because the case that you have to	
7	We can issue a notice of amendment, or		bring to bear becomes quite complex. It's nuanced	
8	we can issue a civil penalty. The civil penalties		in terms of whether or not there has been a	
	can be quite large. And depending on the severity		violation of one order or another and whether that	
1	of the violation, we will use those. And we have		order of magnitude or that violation requires a	
	shown that we will do those. We've we're in		penalty to be assessed.	
	the multimillions of civil penalties.	12	It does not mean that it cannot be done,	
13	That is not the preferable way. The	13	by any stretch of the imagination. It's just	
14	preferable way is for an industry to stand in	1	more it's just easier when you have a linear	
1	compliance. But we will take action if we find an	1	violation of of a prescriptive statute.	
16	operator is endangering the public by not	16	So, what we do, in terms of attempting	
	complying with the rules.	17	to address these sorts of issues, is that we take	
18	Now, you would suggest also that, in the	18		
19	administration's proposal, we have looked at	19	And we we look at so, here's the the	
20	raising our civil penalty limits such that we can	20	vision for my organization, and our	
21	have an even stronger bite if somebody does	21	organization, I should say, not my organization	
22	something wrong.	22	and the culture that we try to develop within our	
-	Page 635		Page 637	
1	Now, I will also mention something else.	1	organization. And that is, first of all, we have	
	You refer to whether an operator's incentive is to		to be experts in our field.	
	comply or not to comply. That isn't a choice.	3	We have to know the rules; we have to	
1	And if we ever find an operator that is	4	know the laws, we have to know as much as we can	
1	deliberately or intentionally not complying with		about those that we are regulating and what	
	the regulations, we will turn them over to the		their what their incentives are, where it is	
	Inspector General or to the Department of Justice		they're trying to go, all the different elements	
8	for criminal enforcement.	1	of a system that you have to understand in order	
9	RICHARD CLARK: One of the benefits of		to know where an organization is headed and how	
10	participating in an NTSB hearing is the quality of	10	they're trying to get there.	
11	the questions that are asked us of, I must say.	11	The second thing is that we have to be	
12	Being a regulator, it's difficult to	12	objective. We can't bring emotion and personal	
13	stand on the outside and look inside what's going	13	perspective. We have to we have to be critical	
14	on in an operation. So our first my first	1	in our thinking. When we see something, we have	
15	direction to my people is that, I don't want them	15	to go beyond, if it's written down on a piece of	
1	to be on the outside looking in; I want them to be		paper, whether or not we then look and verify	
17	on the inside looking around.	17	"trust and verify" as you aptly said.	
18	But even being on the inside looking	18	And then you have to continuously	
	around, you can't know everything that the		improve the system. And that means improving the	
1	operator knows. And if there is an expectation		rules. And it also means taking enforcement	
	that we achieve that, then that's an unrealistic		action when the time has come that you take	
22	expectation.	22	enforcement action.	
		1		

PG	SB Public Hearing Re: &E Gas Transmission Pipeline - DAY 2	March 2, 2011			
	Page 638		Page 640		
1	And so, part of my role is essentially	1	that that would add additional safety measures		
	to act as a district attorney in terms of trying		for the states.		
	to figure out when it is that it's time to to	3	Congress has authorized the states to		
	bring an enforcement action.		receive up to 80 percent funding, but they've		
5	And you know, you make mistakes in that		never appropriated that amount. We've been		
6	regard sometimes, but for the most part, when we	1	booking at about 60 percent appropriation. It		
	get to the point where we're not getting		could be less, could be more. We don't know until		
	compliance with the corrective action plans that		this coming year.		
	have been given to us by the utilities, and we	9	The other point you brought up is		
	say, okay, this is applying a corrective action	10	training. Training we only have one training		
	plan, and we're not getting it, or we feel that	1	facility in the United States. It's in Oklahoma		
	the utilities are misrepresenting the facts, then	12	City, Oklahoma. And that's for all 500 engineers		
	we will absolutely take enforcement actions in	13	and inspectors. We need more training across the		
	that regard.		nation, and more trainers.		
15	It's important to have a just safety	15	CHAIRMAN HERSMAN: Thank you all very		
16	culture also, which is important in terms of being	16	much.		
17	a regulator, a just regulator.	17	This has been a great panel; we've got a		
18	One of the problems with prescriptive	18	lot of good information to talk about as we go		
19	the enforcement of prescriptive regulations is	19	forward with our analysis and our report		
	that many times it becomes a "gotcha" game. We		preparation. We very much appreciate your		
	don't want to have a "gotcha" conversation when it	1	service, and your frank and candid answers to our		
22	comes to the safety of the natural gas system in	22	questions.		
			-		
	Page 639		Page 641		
1	the state of California.	1	I understand we do have one witness that		
2	We want to have a conversation about,	2	the tech panel would like to recall from		
3	where are you going? How do you plan to get	3	yesterday. Ms. Ward, we'll excuse this fourth		
4	there? Do we agree with where you're going? And	4	panel and recall a witness.		
5	how you plan to get there? And are you making	5	HEARING OFFICER WARD: Yes, Madam		
6	good progress in that regard?	6	Chairman. We'd like to recall Mr. Bob Fassett.		
7	The commission, I believe, is moving in	7	CHAIRMAN HERSMAN: Ms. Ward, he was		
8	the direction of taking a broader and deeper look	8	already sworn yesterday, so you don't need to do		
9	at that regulatory scheme, and the balance between	9	it again; correct?		
10	prescriptive regulation and performance-based	10	Mr. Budinski, did you have some		
11	regulation, and free thinking, which gives us just	11	questions for Mr. Fassett?		
12	another insight into actually, a deep insight	12	BOB FASSETT,		
13	into what's going on on the inside.	13	previously sworn upon his oath		
14	Because when you start looking at the	14	as a witness in this case		
15	money and where it's going and what the priorities	15	testified as follows:		
16	are, then you're there.	16	MIKE BUDINSKI: I wanted to revisit our		
17	CHAIRMAN HERSMAN: Do you want to add	17	integrity management session from yesterday's		
18	anything, Mr. Metro?	18	session 2, just looking for a little more clarity.		
19	PAUL METRO: Your assessment is accurate	19	And also I think I might set the stage for session		
20	about the 500 inspectors across the nation. For	20	5 tomorrow.		
21	every new state inspector, we would add 100	21	I'd like to know a little bit more		
22	inspection days, which is a tremendous statistic	22	about, if you could indicate the specific threats		
21	every new state inspector, we would add 100	21	I'd like to know a little bit more		

	& Fublic Hearing Re: &E Gas Transmission Pipeline - DAY 2		March 2, 2011
	Page 642		Page 644
1	identified for line 132, section 180, as you knew	1	the day, and we will reconvene tomorrow morning at
2	them before the accident.	2	9:00 o'clock to consider the testimony from the
3	BOB FASSETT: I don't recall	3	final panel.
4	specifically. I believe, though, Mrs. Perraulta	4	We're adjourned.
5	mentioned that in the morning, and I referenced it	5	
6	in response to Mr. Wiese yesterday afternoon.	6	(HEARING CONCLUDED FOR THE DAY
7	But there was an inter an interacting	7	AT 4:19 P.M.,
8	threat between corrosion and the outside force	8	ON WEDNESDAY, MARCH 2, 2011)
9	associated with the fact that it's crossing	9	* * *
10	that it's in a seismic area and it's an older	10	
11	line.	11	
12	MIKE BUDINSKI: So those so mainly	12	
13	that's two threats, really, that you were	13	
14	inspecting for; is that correct?	14	
15	BOB FASSETT: That's correct.	15	
16	MIKE BUDINSKI: And how did you arrive	16	
17	at this list? And what was the criteria that you	17	
18	used to establish those threats?	18	
19	BOB FASSETT: It's through well, it's	19	
20	through our risk assessment procedures established	20	
21	in RNP6 that we discussed yesterday.	21	
22	MIKE BUDINSKI: Okay. And how were they	22	
	Page 643		Page 645
7	inspected, specifically?	1	REPORTER'S CERTIFICATE
1 2	BOB FASSETT: You mean the actual	2	
_	inspections associated with the line	3	I, LORI BUCKNER, Registered Professional
4	MIKE BUDINSKI: Yeah, for those	4	Reporter and Certified Realtime Reporter,
4 5	BOB FASSETT: was used to evaluate	5	California CSR # 13023, certify that I was
	the corrosion aspect of it, and we monitored to	6	authorized to and did stenographically report the
	determine if there was any outside force, any line	7	above proceedings in the matter of
	movement.	8	NTSB HEARING, DAY 2, MARCH 2, 2011; that the
9	I believe we have records. I don't	9	transcript is a true and complete record of my
	recall if they were provided as an exhibit to a DR	10	stenographic notes, with the caveat that I could
	or not, but we have records to show that there was	11	not see many of the parties speaking and the
	no outside force on that pipe.	12	speaker names are not always certain, and names
13	MIKE BUDINSKI: Okay. Thank you.	13	that were not spelled and not found in documents
14		14	may be phonetic.
15	CHAIRMAN HERSMAN: Just to make sure	15	I further certify that I am not a relative,
	everyone else has an opportunity, did anyone else	16	employee, attorney or counsel of any of the
	e e e e e e e e e e e e e e e e e e e		

18

20

22

17 want to follow up?

19 members of the Board of Inquiry?

21 for being able to come back.

Seeing no requests, follow-up from the

No. Thank you very much, Mr. Fassett,

And this concludes our deliberations for

18

19

20

21

22

17 parties, nor am I a relative or employee of any of

the parties' attorneys or counsel connected with

the action to my knowledge, nor am I financially

interested in the action.

March	2,	2011

		Page 6	46
1	Dated this 2nd day		
2			
3			
4		Lori Buckner, RPR, CRR, CLR	
5		Olender Reporting, Inc.	
6		www.OlenderReporting, Inc.	
7		PHONE 202-898-1108	
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

	- 12 (1)	1970 (4)	333:4;644:8	
\$	585:10	522:13;532:21;	20-20 (1)	4
	– 12-step (1)	533:7;591:16	630:13	
\$4 (1)	462:4	1970s (1)	206 (1)	4:19 (1)
383:16	13 (4)	594:16	624:14	644:7
	- 361:17,18;511:20;	1971 (2)	22 (3)	40 (3)
ſ	512:16	545:14;584:17	369:7;407:22;	405:21;406:16;
E	- 132 (13)	1980s (1)	419:20	548:6
[inaudible] (16)	338:10;343:15;	344:5	23 (1)	40-plus (1)
334:15;340:7;	349:18;360:16;	1990 (1)	482:3	592:20
341:1,5;344:9;	361:5;368:16;370:6;	383:4	24 (1)	41,000 (1)
407:11,17;425:7,21;	404:15;491:7;523:7;	1999 (3)	482:4	343:3
436:4,9;450:14;	530:8;559:13;642:1	479:16;607:3;	24,000 (2)	45 (1)
456:2,20;464:4;	132's (1)	608:8	464:16;592:3	409:2
465:4	560:7		24th (1)	45,000 (1)
405:4	14 (8)	2	565:20	351:16
0	361:17,19;452:6;		25 (1)	450 (1)
0	483:22;484:13,16;	2 (8)	335:3	371:4
00 (1)	485:10;488:21	333:4,4,6;341:16;	250 (1)	
08 (1)	15 (3)	461:13;523:6;	526:8	48 (3)
404:16	413:1;511:21;	641:18;644:8	26 (2)	335:19;506:13;
09 (1)	512:21	2:30 (1)	482:16;624:17	570:7
405:18	- 15,000 (4)	560:14	27 (1)	4A (1)
			495:5	449:6
1	450:22;452:8;	2:45 (1)		4Y (2)
	453:13;585:12	560:13	28(1)	421:7;455:2
1 (1)	150 (2)	2:47 (1)	373:11	
464:16	364:18;365:5	560:14	280 (1)	5
1:00 (1)	15-minute (1)		338:15	
477:20	560:12	361:17;447:16,22;	2800 (1)	5 (1)
1:02 (1)	168 (1)	448:1,11,22;450:22;	501:5	641:20
478:2	483:21	452:7,13;453:13;	29 (1)	50 (6)
10 (1)	17 (2)	464:1;481:15;	341:16	351:2;355:22;
497:3	451:22;502:5	511:21,22;512:21,	2BC (1)	533:2;545:7,10;
10:24 (1)	18 (2)	22;521:21;525:2;	409:13	608:11
404:5	335:20;450:15	585:12;624:8	2CT (1)	500 (4)
10:40 (1)	180 (1)	200 (3)	522:10	625:6;630:22;
404:4	642:1	624:13,15;625:4	_	639:20;640:12
10:44 (1)	186,000 (1)	2000 (3)	3	55 (1)
404:5	373:12	334:14;480:9;		580:2
100 (8)	19 (2)	519:19	30 (5)	
511:3;542:9,14;	335:22;480:22	2003 (1)	334:12;406:16;	6
544:5,6;581:18;	192 (1)	371:15	407:14;412:22;	
582:17;639:21	458:7	2005 (9)	512:11	6.1 (2)
101 (3)	192.619.83 (1)	371:13;444:16;	30,000 (1)	341:17;343:6
338:15;344:4,9	522:16	490:1,2;491:4;	606:15	60 (2)
101/Millbrae (1)	192.619A3 (1)	492:19;497:3;	300 (4)	522:11;640:6
344:4	496:15	538:22;608:17	526:2,8,10;625:4	600 (1)
102 (1)	192.917 (2)	2007 (9)	30-inch (2)	608:12
591:4	526:12,20	346:22;347:3,6;	524:21;559:22	60-pound (1)
11 (1)	1950s (1)	369:1;450:5;463:4,5;	30-year (1)	346:10
	533:3	488:5;537:11	427:19	
502:6	1956 (1)	2008 (1)	35 (2)	60s (1) 502:0
11:58 (1)	530:7	334:16	512:10,11	592:9
477:22	1960 (1)	2009 (2)	365 (1)	615 (1)
112 (4)	500:16	488:5;625:11	495:5	458:8
534:7;613:17;	1960s (1)	2010 (17)	367 (1)	616 (1)
619:20;620:3	533:4	405:18;406:8;	495:5	436:9
1162 (18)	1961 (2)	450:19;458:15;	375 (2)	619 (3)
371:10;373:20;	534:7;613:17	463:12,19;487:9;	526:3,5	528:15;591:4,4
374:5;382:1,14;	1965 (1)	489:2;492:19;493:3;	3-digit (3)	619A (1)
385:17;391:2;	591:16			591:6
399:18;424:2,11;		495:11;537:5;539:1,	472:1,12,14	619C (1)
436:4,5,6;444:7,15,	1968 (2) 532:21;533:6	3;608:17;625:16,21		591:15
17 01 461 10	1	2011 (2)	1	63 (2)
17,21;461:13				05 (2)

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com

(1) \$4 - 63

PG&E Gas Transmissi	on Pipeline - DAY 2			March 2, 2011
625:11,22	437:12;467:21;	accept (3)	acquisitions (1)	485:12,21;490:18;
64 (1)	469:1,6;470:8	533:16;584:18;	475:14	493:9;494:6,7;
548:7		629:2	acronym (1)	495:22;501:18;
65 (5)	Α	acceptable (1)	517:10	537:19;540:18;
580:1,2,3,5,5		353:22	acronyms (1)	541:11:549:5:557:5,
68 (1)	Aaron (62)	accepting (2)	517:5	18;568:21;596:8;
407:21	333:14;334:1;	493:17;550:9	across (16)	600:20;603:17;
	336:11,11;358:5,14;	access (14)	370:14;385:12;	608:7;614:14;
7	359:22;360:10,18;	360:5,12;420:17;	416:17;419:20;	620:16;622:9,15;
	361:1,6,9,14,20;	432:5;446:8;447:1,3,	483:6;504:7;512:2;	630:9;633:12;639:12
700 (2)	362:19;363:14,17;	6;448:7;459:12,22;	519:16;549:7;554:6;	ad (3)
369:7;419:21	364:4,6,12,15;365:2,	466:11;518:7;601:22	590:7;616:3;619:1,	356:3;392:11;
7-word (1)	13,20;366:8;367:6,	accessed (2)	15;639:20;640:13	393:2
386:21	17,20;368:20;	361:2;447:20	act (1)	adapt (1)
	369:18;370:8,13,19;	accessing (1)	638:2	409:10
8	402:5;418:14;	445:13	acted (1)	adaptable (1)
	419:19;421:4;	accident (22)	472:19	507:21
80 (4)	422:17,21;423:4;	346:1,6,13;348:5,	action (23)	add (15)
490:15,20;624:22;	435:21;436:3,5,8,13,	17,20;358:13;	394:10;438:15;	365:22;369:4;
640:4	22;449:20;450:1;	362:16;370:18;	439:3,13;440:1;	417:16;425:11;
80s (1)	452:17;455:6,11;	429:6;440:14;	442:12;443:1,17;	486:5;527:5;530:20;
583:15 811 (7)	456:3,9,15;457:4;	455:10;456:18; 461:2;470:17;	491:18;509:20;	557:22;574:5; 575:12;596:14;
811 (7) 416:11;441:12;	463:5,13,22;465:22; 470:18;474:3,5	473:20;481:16;	524:1;535:5;599:12; 617:9,10,15;623:13;	599:8:639:17,21;
472:6,9,14;473:4,14	ability (9)	483:4;564:9;629:14,	634:15;637:21,22;	640:1
888 (3)	342:2;415:17;	15;642:2	638:4,8,10	added (1)
422:7;457:5,8	428:16;457:14;	accidents (9)	actions (7)	628:3
+22.7,+37.3,0	486:18;541:21;	391:8;440:9,9;	362:17;465:8;	adding (2)
9	616:21;617:15;	472:20;506:22;	512:3;524:19;541:9;	367:10;576:1
	630:20	601:21;615:18;	600:15;638:13	addition (3)
9 (1)	able (38)	628:10,15	active (5)	396:13;403:1;
398:13	355:1;374:21;	accompanying (1)	357:17;470:19;	599:3
9:00 (1)	402:10,11;406:14;	469:20	588:21;589:1,4	additional (20)
644:2	409:16;422:4;447:6,	accomplish (2)	actively (3)	363:4;369:22;
9:02 (1)	9;449:2;450:9;	380:17;541:20	340:12;368:8;	422:7;424:14;454:9,
333:3	454:14;457:14;	accord (2)	369:6	10,19;455:19;
90 (5)	466:12,19;467:6;	514:10;527:11	activities (9)	466:18;534:4;
494:9;543:4,19;	472:18;501:1;	accordance (2)	339:16;397:9;	548:11;567:2;
544:2;581:19	503:14;538:15;	393:21;461:14	470:6;483:6;568:21;	575:13,14;592:21;
90s (5)	539:7,9,10;541:20;	according (1)	620:2;625:7,11,16	600:14;613:3;
381:16;545:21;	543:20;546:2;	624:21	activity (8)	623:13;625:4;640:1
582:8,8;583:16	548:11;549:6;	accordingly (1)	396:17,22;397:13,	address (24)
911 (10)	555:18;559:21;	462:11	21;424:14;439:11;	339:16;376:6;
367:10;419:12,22;	564:5;581:17;	Account (3)	448:19;626:10	379:8;381:13;390:8,
429:17;448:2;	595:20;597:1;618:1; 619:9;627:7;643:21	421:19;422:22; 466:1	actual (7) 369:21;371:15;	19;403:16;421:16; 439:12;459:14;
451:19;470:6,14;	abnormal (1)		439:8;453:8,11;	504:14;519:5;
471:5;472:3 917 (3)	576:18	accuracy (1) 459:12	492:16;643:2	520:11;529:17;
526:21,22;528:20	above (5)	accurate (6)	actually (65)	562:3;564:2;568:9;
95 (2)	433:12;526:10,16;	496:10;525:10,13,	347:6;367:11;	569:8;570:3;591:21;
365:6;583:16	545:8;600:7	14;584:5;639:19	368:5:376:17:394:8;	613:1,6;628:14;
97 (3)	absolutely (6)	accurately (1)	404:11;410:9;	636:17
582:17;584:5;	471:19;474:10;	603:10	412:19;416:20;	addressed (13)
618:8	588:20;589:11;	achieve (2)	418:1,3;420:11,17;	382:1;399:22;
99 (1)	609:17;638:13	552:21;635:21	421:14,18;422:2;	444:8;530:18;561:4;
542:13	absorb (1)	achieved (2)	429:8;430:22;	563:14;564:12,19;
99.5 (1)	552:11	636:3,4	431:10,11;436:13;	605:16;610:6;
542:12	absorbed (1)	achieving (1)	438:3;439:6,12,15;	620:22;630:1,3
9th (15)	554:22	587:8	451:6;452:3;453:2;	addresses (3)
337:22;341:10,12;	academy (1)	acknowledge (2)	457:12;461:7;	400:5;450:22;
342:4,9;358:13;	339:11	437:11;532:4	464:19;467:3,5;	565:1
362:16;367:16;	accelerate (1)	acknowledged (1)	470:18,21;471:9;	addressing (5)
370:5;409:22;	570:9	561:1	472:17,19;475:22;	417:2;570:10;
			1	

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (2) 64 - addressing

PG&E Gas Transmissio	n Pipeline - DAY 2		r
573:7;601:15;633:7	534:12;642:6	438:3;439:6	America (1)
adequacy (2)	again (35)	Alaska (1)	335:17
492:8;627:13	346:22;361:2;	583:14	American (2)
adequate (4)	362:7;368:18;369:2;	align (1)	335:8;607:22
423:9,12,17;554:3	393:9;399:9;412:1;	444:19	ammonia (1)
adequately (6)	413:7;414:18;	aligning (2)	629:19
554:14;561:4,11;	428:17;450:1,6;	545:17;609:19	among (4)
563:14;564:12,19	490:14;502:2,11;	alignment (1)	418:16;425:13,17
adhere (1)	503:1;505:8;508:19;	541:7	471:4
617:9	514:22;515:2;	ALJ (1)	amongst (2)
adjourn (1)	526:18;529:18;	516:9	551:18;554:15
404:4	545:1;549:2;550:5;	Alliance (10)	amount (8)
adjourned (1)	558:17;564:4;569:4;	381:19;382:11;	374:3;514:11;
644:4	585:19;587:20;	389:6;435:6;440:7,	541:18,19;548:10
adjusting (6)	596:8;619:10;620:8;	21;450:17;472:4;	552:13:554:20;64
382:16;547:21;	641:9	473:7;590:12	analogy (1)
573:19;588:21;	against (3)	allocating (1)	579:22
601:17;606:1	402:13;617:15;	505:20	analysis (2)
adjustments (1)	618:13	allocation (1)	505:21:640:19
507:18	age (6)	504:22	analyze (3)
Administration's (2)	age (0) 561:1,6,8;562:19,	allow (6)	440:9;505:21;
481:8;634:19	20,21	360:10;460:16;	571:18
administrative (3)	agencies (8)	466:11;501:10;	analyzing (1)
509:1;512:2;	349:12;361:12;	559:4;610:19	403:1
515:21	372:7;468:16;	allowable (6)	and/or (4)
administrator (2)	469:17;588:11;	495:15;520:19;	561:10;564:18;
458:22;481:7	590:4;609:12	528:18;592:6,16;	565:16;609:15
adopt (3)	agency (6)	595:6	anhydrous (1)
389:8;541:21;	345:14;389:1;	allowed (2)	629:19
621:14	390:5,19;424:6;	533:22;546:12	Annmarie (33)
	590:5,19,424.0,	allowing (2)	333:15;334:2;
adopted (2) 373:21;613:17		419:13;583:17	337:1,1;390:16,2
	aggregate (5)	allows (6)	391:17;392:10,14
adopting (1) 401:22	425:10;506:2;	354:21;360:5,12;	
	543:19;544:1,4	421:15;436:13;466:6	19;393:7,17;394:
advance (4) 337:12;408:6,19;	aggressive (2) 599:17;600:1		395:13,21;396:19
449:3		all-time (1) 571:5	397:3,6,15,18;39 402:22;423:11;
advanced (1)	aghast (1) 383:12	alluded (2)	402.22,425.11,
411:12	ago (12)	379:1:415:6	445:3,7;458:4;46
	ago (12) 370:5;429:9;		465:1;472:3;473:
advantage (2)	434:7;435:7;464:7;	almost (4) 467:8;495:6;	
465:21;466:9	467:4;481:15;483:4;	508:2;559:14	annual (8) 356:7;359:7;
advantages (1) 581:15			
	550:16;553:12;	along (4)	361:9;489:11,19;
advising (1) 423:16	601:5;616:3	359:8;366:20;	506:4;570:22;614
	agree (11)	475:12;538:22	annually (2) 366:19;541:2
advisory (5)	398:10,20;431:17;	alternative (2) 597:14;599:5	anomalies (4)
458:3,15;516:9; 573:10;602:1	484:11;551:13; 552:2;572:19,22;	alternatives (2)	495:4;572:7;
Advocates (4)	585:22;621:9;639:4	598:13;599:13	598:4,9
512:7;516:2,13;	agreed (2)	although (3)	anomaly (6)
517:9	432:9;619:6	0 . ,	470:14;594:6,8;
	-	426:5;465:12; 472:6	595:14:596:22;
aerials (1) 341:17	ahead (9) 353:17;354:8;		598:10
		always (12)	
aeronautical (1) 579:14	392:15;404:6;	353:10;354:16,17;	ANPRM (3)
	487:16;573:20;	357:6;386:20;	604:17,18;607:12
affected (3)	600:21;622:14;631:6	437:13;546:5;599:5;	answered (4)
362:16;421:12;	airliner (1)	610:12;612:10;	503:8;557:9;
453:10	409:7	621:10;628:5	607:2;628:8
affecting (1)	airport (4)	amazing (4)	anticipating (1)
453:9	409:3;434:6,8;	408:2;443:21;	569:15
AFTERNOON (8)	442:14	444:4;469:14	anxious (1) 464:19
478:1;479:13,20;	alarm (5)	amendment (1)	
481:5,20;482:12;	376:18,21;377:4;	634:7	anymore (1)

584:4 API (15) 335:9;363:18; 368:21;371:1,3,9; 373:20;374:5;382:1, 14;385:17;424:2; 444:9,11,17 6:425:13,17: **API-sponsored** (1) 450:2 apologize (3) 365:3;610:20; 633:3 appear (3) 8,19;548:10; 513:19;586:8; 3;554:20;640:5 602:20 application (7) 466:11;516:5,15; 518:2,5;519:1,4 applications (1) 518:5 applied (2) 568:15:573:5 applies (1) 617:5 apply (5) 559:5;562:7,10,14; 567:1 applying (1) 638:10 appreciate (5) 397:19:432:8: 1;390:16,22; 482:9;612:7;640:20 7;392:10,14, approach (21) 3:7,17;394:20; 351:6;355:2; 3,21;396:19; 426:21;427:7; ,6,15,18;398:1; 500:22;507:7;514:3; 528:4;554:1,12; 555:12;566:15,16; ;441:9;444:16; 7;458:4;461:8; 567:16;568:6,18; ;472:3;473:4 601:12;619:16; 621:6;633:1;636:18 approaches (1) 489:11,19; 611:14 ;570:22;614:18 appropriate (9) 439:13,22;471:12; 508:18;534:4; 591:11;606:17,18,21 appropriated (2) 461:5;640:5 appropriation (1) 640:6 approved (2) 347:4:591:3 approves (1) 7,18;607:12 514:13 approximate (1) 343:4 approximately (4) 351:16:371:4: 373:11;625:11 aptly (1) 637:17 arbitrarily (1)

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (3) adequacy - arbitrarily

PG&E Gas Transmissio	PG&E Gas Transmission PipelineDAY 2March 2, 2011					
380:13	419:3;554:9;603:4;	346:7;496:22	auditor (1)	539:14;558:2;631:8		
area (36)	619:21	assuming (1)	498:11	awareness (82)		
340:8;343:5,10,11;	assess (16)	563:9	auditors (4)	333:8;336:9;		
361:4,13,15;366:14;	363:16;368:18;	assumption (1)	394:16:499:18;	337:11;340:21;		
397:14;402:9;	393:14;463:13;	405:15	504:18;505:16	352:14;354:8;358:8,		
418:20;430:2;433:2;	471:11;486:18;	assurance (1)	audits (25)	18;362:2;365:10;		
455:3,22;458:11;	529:14,19;561:20;	485:7	483:15;484:2;	367:5,19;371:8,19;		
466:13;471:18;	562:1,8;563:7,22;	assure (3)	485:12;497:12,13;	372:20;374:1,2,9;		
472:17;474:2;	575:9;603:11;604:3	394:18;631:13,14	500:14,15,21;	375:9;376:6;378:17;		
486:20;487:10;	assessed (2)	assuring (1)	502:15;503:8,8,11;	379:13:381:7;		
489:2,18;506:1;	532:5;636:11	561:14	504:18;505:12;	385:14;386:10;		
521:17;527:21;	assessing (2)	ASV (2)	510:6;534:18;	388:7;391:15;		
530:13;565:12;	363:19;372:19	604:8;605:3	538:10,13;539:10,	393:15;398:8,11;		
572:13,21;580:10;	assessment (40)	ASVs (3)	12;581:21;615:16,	399:15;400:4,7;		
619:2;622:21;	372:22;471:15;	604:19;607:3;	20;618:10;619:10	403:4,9;411:9;414:5,		
629:11:642:10	484:18,20,21;485:1,	608:18	augment (1)	9;415:14;416:3,5,7,		
areas (33)	2;491:10;504:10,10;	attack (1)	625:3	10,20;424:1,8;426:3,		
335:21;366:22;	506:1;508:12;	467:5	Authority (10)	13;435:10,13;436:1,		
369:20;370:15;	523:19;526:12,15;	attempt (1)	424:4;541:18;	11,20,21;437:18;		
412:17;431:16;	529:1;532:8;536:6;	440:12	542:18;543:16;	438:12;440:13,14;		
447:18,20;453:21;	544:7,12;550:20;	attempting (1)	544:8;553:5;582:20;	443:4;449:9,11,14;		
483:7,22;484:13,16,	551:10,15;561:16;	636:16	614:3;617:20;623:8	450:3.20;453:17;		
17;485:10,19;486:7;	562:18;566:21;	attend (1)	authorized (2)	458:7;460:21;462:3;		
487:14;488:21;	579:5;580:18;581:3;	406:5	624:13;640:3	463:7;465:10;466:5;		
491:5;502:16;	587:2;598:20;602:4;	attended (1)	automatic (4)	471:3;472:2,6,9,14;		
504:11;507:14;	612:2;618:20,20;	406:8	565:15;566:2;	473:3,12;585:9,22;		
518:13;520:3;	623:18;626:8;630:5;	attendees (3)	605:13,18	586:17;603:8		
559:15;574:7;584:7;	639:19;642:20	361:17;369:7;	availability (3)	away (3)		
600:2;601:19;	assessments (6)	419:21	459:16;472:10;	375:20;572:14;		
613:19;622:10;632:9	492:9;529:5;	attention (15)	542:2	626:12		
argument (1)	568:7;597:17;	374:22,22;375:5,	available (27)			
572:10	629:21;630:4	14;384:18;387:10,	339:8;353:8;	В		
arising (1)	assets (1)	21;389:17,18;390:3;	367:13;381:18;			
391:7	625:6	397:11;401:11;	415:8;420:16;	Bachelor (2)		
around (24)	assigned (1)	413:16;414:3;442:10	421:19;422:19;	336:17;481:2		
335:20;360:4;	515:20	attorney (1)	423:7,14;424:21;	Bachelor's (2)		
361:15;363:2;364:1;	assist (2)	638:2	426:3,14;430:6;	334:18;480:6		
367:10;373:12;	396:7,8	attorneys (1)	455:9;459:20;	back (48)		
384:6;388:2;398:18;	Assistance (3)	512:3	464:16;465:15;	333:6;345:1;		
400:13;405:4;415:2;	395:19,22;406:18	audience (7)	467:22;473:6;	351:4;364:22;		
419:7;422:1;452:16;	assistant (1)	394:8;400:3;	531:19;556:9,20;	368:17;382:19;		
512:10,13;543:4;	430:2	402:19;453:4;	557:19;591:12;	402:17;404:2;425:5;		
580:9;594:17;	associate (1)	473:17;586:5;605:4	592:4;602:6	436:9;453:15;		
612:22;635:17,19	481:6	audiences (2)	Avenue (3)	454:18;477:20;		
arrival (1)	associated (7)	368:22;461:17	344:5;410:10;	478:3;483:2,7;		
448:6	466:16;482:2;	audit (46)	587:22	489:22;496:15;		
arrive (1)	561:6;564:7;594:18;	483:18;484:7,8;	average (6)	500:16;520:12;		
642:16	642:9;643:3	488:19;489:15;	474:22;476:5;	522:20;530:22;		
arrived (4)	Association (26)	490:1,2,7,18;493:3;	543:7,7,18;582:11	532:20,21;534:13;		
447:14;448:12;	335:1,17;337:8;	495:11,22;496:2,18,	aviation (1)	538:22;545:1,5;		
558:6,10	341:6;350:14;	21;497:17;498:5;	578:13	547:14;551:9;556:3;		
articulate (1)	355:20;357:22;	500:5,18,18,19,20;	avoid (2)	560:13;562:12;		
585:5	358:18;371:4;	501:13,17;502:7,9,	400:16;580:7	580:21;583:15;		
artificially (1)	373:10;379:10;	12,21;503:5,18;	aware (27)	591:1,19;593:5;		
528:2	415:16;425:12,17;	536:13;537:5;538:8,	338:1,3,8;343:15;	594:11,16;595:16;		
aside (1)	430:9,12,21;431:9;	18,21;539:3,18,20;	352:12;355:12;	600:21;605:3;		
383:16	466:5;482:17;506:8,	541:13;563:11;	357:21;370:6;	616:22;629:3;		
aspect (6)	11;569:18;570:4;	567:18;608:17;	373:15;391:12;	630:12;631:11;		
501:1;554:17;	589:2;622:18	619:6;620:4,7,8	404:17;416:13;	643:21		
595:22;603:5,9;	assume (4)	audited (1)	431:21;432:22;	backbone (1)		
643:6	510:18;558:8;	503:19	433:9,10,12;434:9,	518:6		
aspects (6)	591:22;592:3	auditing (3)	16;452:15;456:9,15;	background (1)		
368:2;371:5;	assumed (2)	499:8,9;500:9	524:7;530:11;	578:12		
	1	1	í	l		

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (4) area - background

PG&E Gas Transmissio	on Pipeline - DAY 2	I		March 2, 2011
backgrounds (1)	338:19;339:14;	benefits (4)	blown (1)	334:8;346:20
547:2	373:4;414:1;419:5;	563:18;597:8;	428:8	
balance (6)	489:19;493:18;588:1	598:19;635:9	Board (7)	briefly (3) 415:6;493:16;
556:3;572:20;	bat (1)	besides (3)	400:1;404:2;	506:7
573:2,14;598:12;	383:14	346:9;381:22;	400.1,404.2, 429:10;442:4;571:1;	bring (11)
639:9	Bay (1)	473:13	601:1;643:19	439:9;525:22;
balanced (1)	397:14	best (15)	Bob (9)	555:17;577:4;
618:9		443:12;529:16;	379:21;508:10;	579:11;580:8;
ball (1)	bear (3) 390:21;608:1;	532:8;550:7;553:18;	641:6,12;642:3,15,	579.11,580.8, 581:10;632:6;636:7;
446:21	636:7	560:20;561:18;	19;643:2,5	637:12;638:4
ballpark (1)	beat (1)	562:5,6;564:4;567:7;	body (1)	bringing (5)
364:18	384:6	602:5;607:16;	515:14	426:21;552:14;
bang (1)	BEC (1)	609:15;610:3	Book (2)	578:17;595:15;
551:1	623:16	better (15)	402:13;456:2	609:18
bare (2)	became (2)	356:13;386:13;	booking (1)	broaden (1)
611:22;612:3	334:13,15	388:20;395:6;	640:6	614:7
BARRETT (37)	become (2)	403:10;432:12;	books (1)	broader (3)
478:20;479:11;	398:21;433:21	502:3;543:6;551:17;	420:18	519:3;605:4;639:8
481:19,20,21;	becomes (2)	574:1,8;575:7;	Boss (22)	broadly (1)
528:15;530:1,22;	636:7;638:20	589:10;604:2;632:20	333:13,21;335:13,	549:13
531:4;539:22;540:6;	began (1)	beyond (7)	14,14;373:6,9,17;	brochure (4)
542:10;543:8;544:2,	611:1	355:3;376:11;	374:10:375:11;	387:3;388:9,15;
5,15,18;545:4,9,12;	begin (4)	422:6;494:9;595:5;	379:8,9,20;381:4,14;	452:5
546:4;550:5;551:13;	333:7;337:19;	622:9;637:15	400:19,20;417:16;	brochures (3)
567:13,20;581:18;	404:8;478:4	big (3)	423:20;425:11,16;	387:11;401:17;
582:2,14;583:12;	beginning (3)	374:10;400:10;	440:5	450:20
585:3;591:4;592:12;	392:1,1;534:14	562:16	both (24)	broke (1)
593:3;622:15;623:6;	begins (1)	biggest (3)	350:17;359:11;	613:21
625:9,10	617:4	355:4;551:1;	379:8;383:18;	brought (5)
Barrett's (1)	begun (2)	626:18	393:20;400:22;	406:18;455:1;
547:22	555:20;565:19	bill (7)	408:1;409:21;420:6;	590:15;603:18;640:9
barriers (3)	behalf (2)	362:21;363:12,16;	423:7;430:13;434:3;	browser (1)
389:18;390:2;	437:15;451:5	377:17;394:5;	467:22;500:11;	466:12
417:1	behavior (9)	421:21;477:1	506:22;556:12;	Bruno (52)
bars (1)	394:11;416:11,21;	bills (4)	570:15,16;593:8;	333:7;334:11,14,
410:19	417:2,15;441:14,17;	363:11;432:18,19;	601:19;604:5;616:1;	15;338:1,5;341:14,
based (22)	472:18;617:14	451:15	627:20;633:11	15;343:1,10,16;
365:2;366:17;	behavioral (1)	biplane (3)	bottom (2)	358:12;361:3,16;
369:1;394:11;398:5;	416:5	583:1,13,14	394:11;450:16	369:14;370:2;
402:3;436:6;504:21;	behaviors (2)	bit (40)	bouncing (1)	397:14;398:15;
542:1,4;559:1;560:1;	401:16,18	346:17;347:16;	548:13	400:11;402:16;
562:5;581:20;582:3;	behind (2)	362:2;368:7;386:14;	boundaries (1)	409:22;410:10;
583:9;584:9;591:11;	376:22;532:14	411:18;421:2,9;	407:19	413:8;417:12;
592:10;602:2,4,21	belief (1)	426:11;441:10;	bowl (2)	422:13;426:6;
baseline (7)	428:15	449:16;452:22;	575:16,19	428:21;431:20;
358:16;359:1;	Bellingham (2)	454:15;457:22;	box (2)	432:1;433:4;437:8;
444:20;463:6;	383:4,7	464:18;473:11,15;	355:6;512:13	455:3,7;456:18;
484:18;628:2;629:21	belonged (1) 425:21	474:20;486:17;	branch (2) 516-8-615-0	458:21;460:6;
basic (2)	-	490:1;493:1;495:8;	516:8;615:9	467:22;469:17,17;
340:6;411:8	below (5)	498:11;501:22; 502:2;520:6,15;	brand (1) 611:5	471:3;538:18;539:6; 557:5;560:18;561:8;
basically (22) 417:19;483:19,21,	410:11;543:7,18; 545:7,10	566:14;567:14;	breadth (1)	576:10,16;577:5,15;
22;485:18;488:18;		569:20;573:14;	483:5	605:21;609:7;615:12
· · · · · ·	belt (1) 443:7	591:2;593:6;595:1;	485.5 break (4)	buck (1)
492:11;493:6,10; 496:3;497:12;	benchmark (3)	599:2;617:1;620:12;	404:1;477:20;	551:2
490.3,497.12, 500:22;501:16;	581:11;618:13;	628:20;632:20;	560:13;576:11	buckets (1)
506:18;535:8;	619:10	641:21	breakdown (1)	505:20
537:10;538:2;542:3;	beneficial (1)	bite (1)	361:21	budget (2)
547:3;577:12;	412:10	634:21	breaks (1)	548:8;550:3
582:12;591:14	benefit (7)	black (1)	560:2	Budinski (7)
basics (1)	341:22;454:7;	410:18	breathing (1)	641:10,16;642:12,
591:2	590:2,16,17,21;	blow (2)	507:21	16,22;643:4,13
basis (8)	598:21	447:5;598:4	brief (2)	build (1)
NH010 (0)				

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (5) backgrounds - build

FG&L Gas Transmissio	Di Fipenne - DAT 2	1	1	March 2, 2011
420:15	calling (3)	620-5-621-2 4 5 10	catch (3)	445:16;560:19
420.15 building (1)	396:1;472:9;	630:5;631:3,4,5,18, 21;633:5,11;634:5,7,	374:21;399:7;	CHAIRMAN (131)
416:20	473:14	8,9,20;637:4	632:10	333:5,12;337:15,
built (3)	calls (7)	candid (1)	catches (1)	18;376:15;377:5;
461:4;555:15;	342:16;401:19;	640:21	384:18	403:19,21;404:6,11;
626:13	441:11;457:9;	candor (1)	categories (2)	406:22;411:2,6,16;
bulletin (1)	459:21;470:6;571:1	432:9	492:16;510:13	412:13;418:5;
458:15	came (8)	capabilities (1)	categorized (2)	422:12;424:22;
bunch (1)	377:1;383:4;	616:18	491:17;496:17	425:14;429:2;
586:21	429:10;435:6;	capable (3)	CATS (7)	435:15,16;437:5;
burden (1)	465:11;519:19;	396:6;531:11;	396:1,16;397:3,13,	438:20;443:18,18,
552:13	534:7;620:20	543:11	20;403:9;465:16	19,21;444:6,22;
buried (4)	campaign (4)	capacities (1)	cause (2)	445:4,9,11,18,22;
375:2;451:21;	441:12,18;473:4,5	336:15	528:5;578:2	446:9,12,17;447:5,
474:20;549:15	campaigns (2)	capital (2)	caused (1)	13,22;448:5,12,15;
bursting (2)	441:16;472:15	514:4;516:16	453:14	449:4,21;450:11;
404:16,18	Can (157)	capture (1)	causes (1)	452:18;454:17;
bush (1)	347:15;351:8,9;	619:22	386:1	455:14,16;457:19;
384:6	352:4;354:3,21,22;	car (2)	CBC (1)	462:22;464:4;
Business (9)	357:8;359:4;360:13;	580:1,5	581:19	466:21;467:3,15;
337:3;421:17;	363:3;367:3;370:22;	card (5)	CCP (1)	468:5;469:12,12,13;
430:14;450:21;	374:12;378:15;	453:8;454:2;	606:2	470:4;471:20;
453:7;454:2;464:1;	386:9;393:16;395:3,	464:2;581:20,20	center (5)	472:11;473:18;
481:14:633:19	7;397:7,16,22;398:7;	care (6)	349:5;402:10;	474:4,11;478:3,9;
businesses (1)	412:19;413:5,6,12;	345:9;418:13;	410:7;470:10,15	482:18,20;483:1,10,
362:9	414:19;415:12,13;	419:16;459:14;	centers (2)	13;501:18;506:20;
busy (1)	416:17;418:2;421:2;	509:9;617:12	400:2;401:20	527:13;560:11,15;
382:5	422:8;424:3;426:12;	career (1)	central (2)	566:6,8,10;569:22;
buy (1)	428:16;432:5;	427:19	407:20;481:17	571:9;573:21;576:7;
434:10	434:21;439:7;	Carl (27)	certain (25)	578:11;581:12;
- C	441:11,12;442:2,16;	333:14,22;336:3,3;	378:7;412:17;	588:6,6,7;589:9,12;
С	443:10;449:5;	383:1,22;384:14;	447:19;487:2;489:8;	590:18;591:1;592:7,
	459:12,17;461:20;	385:16;386:11;	493:7,7,11,19;494:2;	18;593:4,18,22;
CAD (1)	462:11;468:18,19;	389:3;390:7,12;	504:18;514:11;	594:10;596:13;
349:5	471:21;473:14;	401:8;416:9,17,18,	536:8;538:3;548:10;	597:12;599:7;600:3,
cadre (1)	480:13;486:16;	19;417:17;426:1;	571:18;578:17;	18;609:3,6;610:16,
614:22	489:1;493:1;494:22;	433:13;435:4;438:5,	579:11,12;589:22;	20;612:7;613:3;
calendar (2)	495:8;498:10;	8;440:19;459:13,15;	598:14,16,16;610:8;	618:5;620:15,19;
625:10,16	499:16;500:4;501:2,	473:11	622:10	621:19;622:5,8;
California (24)	3,12,14,19;502:1;	Carmichael (5)	Certainly (27)	623:1;624:1,10;
334:18;407:17;	503:2,16,20;505:21;	403:15,17;429:7,	354:2,19;357:2;	625:5;626:1,17;
424:5,13,16;430:15,	506:7;515:2,21;	14;461:3	367:2;384:14,20;	628:9;633:9;639:17;
16;456:19;479:22;	517:1;519:17;	carrier (2)	385:5,21;393:7;	640:15;641:6,7;
480:16;483:4;500:6,	521:14;525:9;	435:20;436:11	395:21;396:5;398:1,	643:15
16;543:9;548:21;	527:15;528:12,13;	carriers (1)	12;412:10;419:6;	challenge (11)
554:16:581:19;	530:17;531:2,18;	436:2	433:19;435:4;	375:16;381:13;
588:11;599:14;	532:5,14,19;533:10;	case (19)	443:20;459:15;	439:1;473:15;
618:14,16;623:16;	536:16;537:22;	334:3;340:7;	465:17;510:12;	476:17;546:19;
625:20;639:1	538:9;540:6;550:22;	366:18;429:14;	513:12;520:22;	547:5;552:15;553:8;
call (15)	552:19,21;553:1,6,7,	478:22;514:10,10;	538:17;568:4;	555:8;631:9
400:2;401:19;	18;554:13;555:17,		582:16;609:16	challenges (14)
	21;556:16;558:18;	516:11;517:2;518:2;		
416:12;419:15;		560:7;576:16,22;	certification (6)	374:7,11;375:8;
421:6;439:18;448:2;	561:15;562:6;563:4;	580:8,8;583:21;	334:17;542:14;	381:5;474:14;
451:18;468:19;	569:2;571:14;580:1,	632:7;636:6;641:14	614:14,17,19;622:13	545:22;547:10,18;
470:14;471:5,13,13;	5,19;586:3;590:9;	cases (6)	certified (2)	548:22;552:6;585:6;
541:8;627:4	591:1,7,21;592:14,	425:21;441:12;	584:4,7	597:21;626:18;
called (9)	20,22;594:1,21;	515:20;516:9;518:9;	certify (2)	627:18
334:3;437:8;	597:5,18;598:15;	590:10	614:10;623:7	challenging (1)
440:8;476:18;	603:1,13;607:18,19;	cast (3)	cetera (3)	557:18
478:22;498:17;	608:1;610:6;614:7;	540:19;611:21;	372:10;438:16;	chance (3)
532:16;563:4;577:17	618:13;619:8;	612:4	442:20	384:10;387:16;
callers (1)	620:10;621:22,22;	catalyst (1)	Chair (4)	437:11
429:17	622:1;628:5,10,13;	472:21	337:7;412:2;	change (13)

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (6) building - change

	milipenne – Diti 2	I	I	March 2, 2011
367:4;374:2;	458:19;474:1;	14,19;512:17,22;	colleague (1)	514:3,9,13;515:6,8,
394:11;416:6,11,21;	482:13;508:22,22	513:6,12,22;514:6;	442:3	14;517:16,21;
417:15;453:18;	chiefs (2)	515:1;520:16,21;	collect (6)	518:18;538:7;546:2;
472:18;485:6;	418:18;430:12	524:9,13,17;527:5,6,	574:19;575:1,2,6;	554:8;565:19;600:9;
509:18:557:7:571:12	Chief's (1)	18;530:19,21;534:6,	603:2:622:16	617:17,22;639:7
changed (5)	414:18	9;548:19;549:2;	collected (4)	commissioners (3)
367:8;409:7;	children (2)	550:5;553:21,22;	389:1,1;601:14,16	509:1,17;512:4
411:12;580:9;613:22	383:15;437:1	556:1;565:18;566:5;	collecting (3)	commissions (3)
changes (9)	chime (1)	588:20;589:11;	507:9;574:20;	519:9;547:19;
417:2;462:1,11;	402:6	593:16;595:4;604:6;	602:18	588:12
470:16;504:11,15;	choice (3)	605:9;606:4;609:16;	collection (2)	commission's (4)
507:22;508:8,8	387:4,5;635:3	613:16;614:12,20;	601:13;626:7	510:10;516:2;
changing (3)	choose (2)	615:1,4,7,17;616:1,	collectively (1)	517:8;544:7
401:16;575:9;	456:1;557:15	20;618:4,15;619:17;	413:13	commit (1)
601:12	chose (1)	620:13;621:2;624:3,	collects (2)	467:13
channels (1)	580:14	9;629:3;633:10;	603:6;622:13	commitment (1)
474:9	circumstances (2)	635:9	Columbia (1)	387:5
characteristics (5)	598:16;621:13	class (6)	506:14	committee (1)
352:17;426:16;	citation (1)	347:5;369:7,9;	column (2)	540:13
458:11;561:5;578:1	618:1	420:16;437:1;591:17	535:12,12 comb (1)	committees (3)
charge (2) 536:8,16	cited (1) 377:16	classes (4) 339:13;369:5,8;	633:18	434:2;571:3;612:9 common (5)
charges (1)	citizen (1)	419:20	combined (2)	373:16;381:19;
518:7	433:9	classified (1)	542:15;543:3	440:7;472:4;473:7
check (6)	citizens (2)	490:16	comfortable (2)	commonality (1)
497:10;531:18;	362:15:388:21	classify (1)	456:14;457:1	373:17
541:4;568:21;585:7;	City (20)	490:17	coming (14)	commonly (1)
631:6	334:11,13,13;	clause (5)	337:4;385:2;	363:12
checked (1)	338:4,6;358:12;	520:15;532:17;	409:21;421:7;	communicate (7)
627:9	369:14;389:12;	534:4;546:12;591:15	439:21;477:5;483:7;	342:10;355:7;
checking (2)	397:14;398:15;	clear (8)	517:22;564:22;	381:1;399:11;
355:6;534:19	404:17;422:13;	396:15;412:14;	569:16;598:5;605:3;	415:18;417:13,18
checklist (8)	469:17;560:17;	444:8,10;453:7;	630:13;640:8	communicated (1)
483:21;485:19,21;	583:4;605:10;609:7;	468:22;469:2;537:19	command (5)	522:2
486:16;568:6,18;	611:1,3;640:12	clearinghouse (3)	348:11;407:6;	communicating (2)
571:20;585:13	civil (6)	424:9,10,12	410:7;468:10,11	369:15;386:2
checklists (2)	336:19;618:17;	clearly (8)	commenced (1)	communication (34)
484:3;534:20	634:8,8,12,20	367:22;402:15;	553:10	348:8,10,14;349:7;
check-off (2)	CLANON (25)	453:18;462:19;	comment (16)	353:13,20;354:4;
393:5;492:12	407:1,2,9,13;	536:16;600:8;	344:11;372:10;	355:8;356:11,13;
checksheet (1) 492:7	408:4,12;409:12;	609:10;611:3	377:10;443:5;	362:20;374:15; 381:10;384:5;
chemical (1)	410:11,14,22;411:5, 16,20;412:9;455:21;	clock (1) 546:18	452:11;458:20; 459:8;466:22;	405:13;413:21;
481:15	456:5,11,16;457:17;	close (8)	491:14;599:10;	415:13,15:417:6,10;
CHHATRE (31)	571:10;572:17;	344:4;364:2;	604:9,15;611:14;	419:9,10;426:10,19;
403:19;455:14,17;	573:12,17;574:12;	409:3;447:2;468:6;	612:13;633:10,11	427:10;465:5;469:3;
499:21;500:1;	576:5	484:11;539:18,20	commented (1)	473:1;474:9;485:8;
501:11,15;503:6,16,	clarifications (1)	closely (2)	534:21	570:12,17:571:4;
22;504:5,17;505:8;	355:16	516:4;609:19	comments (8)	615:14
506:6,20;508:2,9;	clarified (1)	closer (2)	368:13;398:6;	communications (15)
556:3,5,18;557:8;	620:20	425:15;466:2	416:1;421:8;477:14;	336:16;348:6,18;
558:12;559:8,11,22;	clarify (5)	closest (1)	548:1;604:11;612:8	354:22;387:13,14;
560:9,12;604:5;	427:15;428:4;	438:5	commerce (1)	403:7;405:10;
605:22;606:7;609:3	463:3,11;620:16	closing (1)	621:8	421:12;427:3;
Chief (29)	clarifying (1)	411:11	commercial (1)	453:20;465:4;480:4;
333:12;334:7,11,	618:2	cognizant (1)	343:13	615:10;621:3
13,15,17;337:21;	clarity (2)	354:17	Commission (42)	communicator (1)
338:2;342:18,19;	505:9;641:18	collaborate (1)	407:3;424:5,14,17;	417:8
368:15;369:19;	CLARK (73)	414:10	434:6;480:1,3,9,17,	communities (9)
370:4;398:9;404:12;	478:17;479:10,19,	collaboration (1)	22;482:14,16;	386:6;391:15;
/111/13//11/11/101				
407:3,4;411:19;	20,21;483:2,9;500:2,	470:8	508:21;509:21,22;	396:7,9,18;400:16,
417:7;427:14;430:2,	8;508:11,19;509:16;	collated (1)	511:1,6,13,14;512:2,	18;426:17;436:16

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (7) changed - community

	-
343:2;353:15;	componer
362:5,15,21;364:3;	352:21
367:22;368:15;	comprehe
369:17;370:3; 378:17,19;391:9;	554:13; 566:20
395:19,22;397:2;	comprom
401:1;413:14;	459:10;
418:17;419:13;	conceptua
428:20;429:15,18,	437:17
21;433:5,8;437:3;	concern (1
472:14;475:3	368:12;
community-based (1) 363:7	393:12; 487:11,
companies (6)	530:10;
335:11;373:11;	548:2;5
379:21,22;425:20;	concerned
568:8	377:20;
company (18)	535:22;
335:22;336:13;	concerns
364:7;368:3;383:12;	425:20;
424:21;461:6; 476:18;484:10;	537:6,9 conclude
503:13;528:17;	534:10
535:9;580:14;587:7;	concluded
611:11;619:11;	403:20;
632:4,5	644:6
comparable (1) 455:8	concludes 643:22
compare (1)	concrete (
543:5	437:19
compared (1)	condition
590:6	517:18
compatible (1) 349:4	condition 510:9;5-
compelling (1)	548:20;
453:2	conduct (1
compete (1)	359:5;3
402:13	461:11;
competition (1) 549:7	504:18; 596:19;
complain (1)	615:16;
434:8	conducted
complete (3)	350:22;
350:20;376:13;	395:5;4
484:8	534:17; 622:18
completed (1) 424:8	conductin
completely (3)	520:20;
453:21;614:11;	538:12;
623:6	conferenc
complex (1)	356:8
636:7 compliance (3)	confidenc 365:7;3
628:6;634:15;	597:15
638:8	confirm (1
complicated (2)	513:10
419:5;457:10	conflict (2
complied (1) 634:5	385:2;5 conflicting
comply (4)	386:14;
631:13,15;635:3,3	conflicts (
complying (2)	513:20,
634:17;635:5	Conforma

485:2 mponents (1) confusing (1) 467:8 mprehensive (3) 554:13;555:12; confusion (1) 467:7 mpromise (2) congratulate (1) 459:10:460:13 470:3 nceptual (1) Congress (2) 387:22;640:3 ncern (12) connect (1) 368:12:384:3: 414:18 393:12;442:18; connected (1) 487:11,15:523:13; 425:20 CONNIE (20) 530:10;531:21; 548:2:586:18:596:2 422:14,18;423:2.5. ncerned (5) 19:426:8:427:12: 377:20:456:19: 428:4,9:429:1:464:5: 535:22:557:14:594:8 466:20:560:19: ncerns (4) 563:9:564:3.16: 425:20:492:19; 565:9;566:4;609:8; 610:15 nclude (1) cons (6) 594:18,22;596:22; ncluded (3) 597:8:600:4.6 403:20:539:3: consequence (2) 484:17;527:21 ncludes (1) consequences (2) 428:21:595:19 ncrete (1) conservation (1) 445:21 ndition (1) conservative (9) 497:6,8;556:10,14, nditions (5) 22;557:3,16;558:17; 510:9;546:6; 560:3 consider (12) 548:20:549:9:606:18 346:12;380:8; nduct (10) 359:5;365:11; 490:21;529:9;579:8; 461:11:484:2; 591:18;597:9;605:2, 504:18;508:4; 12:608:14:609:13: 596:19;597:3; 644:2 considerable (2) 615:16;626:5 548:2:554:20 nducted (7) 350:22;366:5; consideration (2) 395:5:450:18; 370:10:540:21 534:17:538:10; considerations (2) 460:12;464:12 considered (4) nducting (4) 520:20:536:13: 500:4;528:22; 538:12;561:16 592:11;609:12 nference (1) **Considering (3)** 565:11,14;610:5 nfidence (4) **Consistent** (1) 365:7:379:2,6; 548:3 consists (2) nfirm (1) 355:22;568:10 constant (2) nflict (2) 382:13;472:8 385:2:520:6 constantly (2) nflicting (2) 382:15:416:4 386:14:519:13 constraints (1) nflicts (3) 552:6 513:20.22:515:16 constructed (2) 533:3;577:19 onformatory (1)

construction (6) 359:8:397:10: 474:7;505:6,7;566:1 consult (1) 346:12 consultant (4) 487:14,21;488:15; 537:15 consulted (1) 345:5 consumer (7) 474:22;476:5; 479:21:480:15,21; 515:10;517:11 contact (14) 340:10:353:1.2: 360:6:369:19; 385:21:405:14: 419:11:458:12: 466:17;468:17,19; 469:2:474:1 contacted (2) 348:20;349:2 contacting (1) 363:4 contacts (3) 363:2;376:8; 398:22 contained (1) 448:18 contains (4) 359:1,2;362:22; 403:7 content (4) 366:9:367:2; 402:11;453:9 context (2) 344:11:518:20 continual (4) 399:16;462:3; 485:1;486:22 continually (2) 415:3;423:15 continue (7) 377:6:379:4; 398:21;462:8; 559:12:560:16:628:1 continued (2) 368:11:409:2 continuing (6) 374:4;403:16; 477:10;530:4; 547:11,12 continuous (4) 366:20;400:21; 575:16,20 continuously (2) 401:5;637:18 contract (4) 434:15:435:3: 449:15:537:7 contractor (5) 487:11,12;537:5,

11,21 contractors (2) 365:11,16 control (8) 409:11:410:1: 552:8;564:6,17,22; 565:4,16 controlled (3) 566:2;605:14,18 controls (1) 564:8 convenience (1) 415:9 conversation (6) 416:9:470:19; 554:3:624:3:638:21: 639:2 conversations (1) 398:17 convey (3) 419:7:473:14.16 convince (2) 549:6.20 convincing (1) 627:18 cookie-cutter (2) 563:20;566:18 cooperative (1) 381:15 coordinate (1) 342:10 coordinated (1) 469:3 coordination (5) 348:6,8;353:13; 418:16:468:2 copies (1) 351:16 copped (1) 448:20 copy(3)390:11:523:2; 613:14 cordon (1) 340:8 corner (1) 444:2 corporate (3) 371:4;380:3; 453:19 corrected (1) 491:1 corrective (4) 617:9,10;638:8,10 correctly (2) 344:11:508:14 correspondence (1) 538:7 corridor (2) 343:18:344:3 corridors (2) 338:15:344:3 corrosion (3)

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (8) community-based - corrosion

FG&L Gas Transmissio	m ripenne - DAT 2			Warth 2, 2011
596:6;642:8;643:6	covered (2)	criticism (1)	370:21	440:4;512:21;
	418:10:519:1	413:22	data (49)	540:1,19,19;541:17;
cost (4)				
607:22;609:11; 625:18;633:19	covering (1)	cross-functional (1) 590:11	360:21;394:2;	546:6;557:13;562:3
2	518:10	-	424:21;425:9,10;	deals (2)
cost-benefit (3)	covers (3)	crossing (1)	440:1;484:20;496:3;	356:9;430:18
607:17;608:4,8	483:22;484:1;	642:9	497:5,6;498:3;507:9,	dealt (2)
costly (1)	485:19	crossings (1)	16;508:7;523:17;	348:1;607:13
608:13	CPCs (1)	480:6	524:5;530:12;	DEBBIE (1)
costs (8)	581:21	crucial (2)	531:15;550:21;	566:9
518:3,10,10;519:1;	CPSD (3)	459:4;460:11	551:17,19,21;553:2;	decade (1)
611:12;625:12,18,21	480:18;517:3,13	cultivating (1)	555:13,17;562:6;	552:8
coughing (1)	CPUC (30)	547:3	574:18,19,20;575:5,	decades (1)
431:3	406:22;430:16;	culture (3)	6;577:1;601:6,8,12,	627:5
Council (2)	455:20;479:15,15,	509:5;636:22;	13,15,22;602:5,5,8;	deceased (1)
336:8;389:12	17,18;486:14;	638:16	603:2,6,10,16,19;	446:3
counsel (1)	490:10;491:11;	curious (5)	619:22;626:6,7	December (3)
508:22	492:7;498:11;	410:4;431:19;	database (3)	374:6;382:11;
count (2)	508:17;520:17;	467:20;520:17;	496:20;505:19;	479:15
442:2;446:2	522:14;524:5,11,14;	620:15	555:15	decertified (1)
counterparts (3)	534:17;537:18;	current (3)	databases (2)	583:16
348:15;589:21;	563:11;571:9;593:1,	546:10;615:7;	555:14;620:1	decertify (2)
612:21	8,15;595:3;599:8;	623:15	datasets (1)	584:2,15
counting (1)	611:3;613:7;614:21	Currently (7)	360:12	decide (3)
401:16	CPUCs (1)	356:17;422:19;	date (2)	501:16;528:9;
	566:12	488:11;511:19;		621:5
countries (1)			581:4,4	
612:17	CPUC's (1)	518:4;624:12;625:17	DAUGHERTY (82)	decided (1)
country (12)	625:8	curricula (1)	478:19;479:10;	615:12
337:12;357:19;	cracked (1)	339:11	481:4,5,6;503:16,20;	decision (4)
385:12;388:2,12;	444:3	curriculum (7)	504:1,6;505:17;	514:14;533:15;
504:7;506:19;519:9;	cracks (1)	341:8;348:22;	522:17;523:3,12;	558:6;561:19
582:13,14;619:15;	598:15	350:16,18;351:16;	524:3,7;528:12,13;	decisions (1)
631:1	cradle (1)	415:12;431:12	530:5,11;531:9,12;	468:20
country's (1)	366:2	customer (5)	532:2,19;534:1;	decrease (1)
581:22	crafting (1)	394:17;432:14;	550:5;552:2;553:11;	551:6
County (5)	374:21	441:17;454:7;518:7	556:7;557:10,11;	decreased (3)
336:8;407:16,18;	crash (1)	Customers (3)	558:19;559:10,16;	520:4;525:18;
430:2;460:15	408:17	457:6,16;518:11	561:12;563:15;	551:8
couple (19)	create (5)	cut (1)	564:14,21;566:17;	dedicate (1)
355:15;358:14;	595:14;597:5,10;	409:20	572:18,22;573:15;	539:7
365:10;385:8;	602:7,8	cutoff (2)	574:6,16;577:3,11;	dedicated (3)
386:19;387:22;	created (1)	584:3,12	578:15,20;579:8,17;	511:17;513:8;
388:18;407:3;	472:21	cutoffs (2)	580:13;585:21;	583:1
413:20;415:14,22;	creates (1)	583:10;584:6	587:6;588:4;589:19;	deemed (1)
421:8;427:13;	596:6	cycle (1)	590:20;593:19;	623:14
440:18;441:7;500:1;	credible (2)	391:22	596:15;597:16;	Deep (2)
571:11;628:10;632:6	357:7;399:4	cycles (1)	601:4,17;602:15;	632:18;639:12
coupled (2)	credit (1)	366:18	603:4,15,17;604:6,	deepen (1)
423:13,17	439:14	500.10	14;607:1,6;608:10;	614:8
course (17)	creek (1)	D	610:2;612:6,13,14;	deeper (1)
340:7;369:6;	383:6	D	621:9;622:4,7,14;	639:8
399:22;407:10;		doily (1)	624:12;626:16,22;	
	criminal (1)	daily (1)		deeply (2)
429:10;430:8;439:5;	635:8	414:1	631:7;634:1	391:2;549:13
498:17,17,22;	criminals' (1)	damage (11)	DAY (5)	defect (3)
569:21;574:3;	383:16	337:10;385:22;	333:4,6;388:12;	597:18;630:4,5
578:13;581:16;	crisis (1)	386:17;403:8;	644:1,6	defective (1)
595:5,17;620:10	480:9	409:14;410:16;	days (5)	576:21
courses (3)	criteria (5)	412:22;441:10;	388:14;494:9;	defects (7)
498:15,19,19	392:8,17;395:11;	465:10;473:13;541:6	495:5;541:19;639:22	593:1;596:18,18;
cover (10)	587:4;642:17	damaged (1)	dead (1)	597:2,4;633:14,17
341:17;388:10;	criterion (1)	398:17	388:13	defensive (1)
418:21;419:16;	619:7	damages (2)	deal (1)	412:6
420:4;473:21;499:4;	critical (2)	441:13;472:20	400:13	defer (1)
518:5;537:2;544:12	338:17;637:13	Dana (1)	dealing (9)	404:22
. ,	. ,			

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (9) cost - defer

$ \begin{array}{c} \mbox{definite} (1) & 359:338.10, \\ 653716:20,2558.11, \\ 6497.12,20,20,20,255.12,13; \\ 661nige (1) & 407:13.21,42; \\ 6197.1 & 420:420,255.12,13; \\ 6197.1 & 420:420,255.12,13; \\ 6197.1 & 420:420,255.12,13; \\ 6197.1 & 420:420,21,20; \\ 6451nite (2) & 412:144.548.17,18; \\ 3597.7,8 & 10.430:14.431.7,18; \\ 3597.7,8 & 10.430:14.431.7,18; \\ 3597.231.21.3532.10; \\ 445:13.512.01; \\ 445:13.512.01; \\ 445:13.512.01; \\ 445:13.21,10; \\ 445:13.21,10; \\ 445:14.14,144.78,15; \\ 5597.17; \\ 350:11.2532.12; \\ 455:13,12.21; \\ 455:13,12.21; \\ 455:13,14.447,18; \\ 5597.17; \\ 350:11.2532.12; \\ 455:13,14.447,18; \\ 3591.02,14.14; \\ 455:13,14.447,18; \\ 3591.02,14.14; \\ 455:13,14.447,18; \\ 3591.02,14.14; \\ 3591.02,14.14; \\ 3591.02,14.14; \\ 455:13,14.14,16; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 455:14.14,14.14; \\ 445:14.14,14.14,14.14; \\ 557:20 & 493.14,14.14; \\ 494:12.62,13.20; \\ 494:14.17,17; \\ 496:14.2490.17; \\ 14.18,149.12,20,16.20; \\ 494:14.17,17; \\ 496:12.2490.17; \\ 14.18,149.12,20,16.20; \\ 494:14.17,17; \\ 496:12.2490.17; \\ 14.18,149.12,20,16.20; \\ 494:12.2490.14; \\ 494:12.4400.14;$	PG&E Gas Transmission Pipeline- DAY 2March 2, 20				
$\begin{array}{llllllllllllllllllllllllllllllllllll$	deficiencies (4)	350:3;398:10;	depth (2)	determining (3)	difficult (12)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$	633:14	406:1,3,7,12,15;	deputy (4)	627:8	549:20;567:6;
$\begin{array}{llllllllllllllllllllllllllllllllllll$	defining (1)				
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
523:12,13;532:10; 14,18,4478,15; 388:21;395:18; developed (9) 446:13/493.22; 594:18;600:4;631:8 4683:7.9469;5; described (5) 397:1772;2; 416:13/493.22; 465:13 4683:7.9469;5; described (5) 397:7414/20,4664; 509:65376:640:10; 465:13 483:12,488415; description (3) 392:73:371:18; description (3) 34:18:357:12; 10,122:1487:10.22; 382:4534:16 392:21,22:20:6 digg (1) 480:6;481:2;499:17, 5,13,16,20;490:5,0; 334:454:17;7; Development (1) direct (7) 19,634:6 14;491:2,68,13:21; 629:10 371:21;72:11,14; 329:33:48:3,11; 26pro; (1) 492:3,15494:2,71,1; 591:19,22 391:2400:13; direct (7) 446:5:494:13,14,15 14,18:495.21,62; designet (4) 481:11,11:48:27; direct (7) 446:5:494:13,14,15 12,18:22;498:43; 572:22;386:5 deviation (1) 485:23:396:17; 446:5:494:13,14,15 12,82:298:48;43; 572:22;386:5 deviation (1) 487:43:49:65:41; 499:3,55:556:75,14;42;42;2; 577:1					
5852,1593,20; 4483,10,14,16; 567:17 367:11,372,2; 316:13,493,22;; 5941,18(00,46,61); 4683,79,469;; decrifield (5) 392:7414,20,466,4; 494:9559,3560;1; 465:13 483:19,484,14; astring (3) 392:7414,20,466,4; 494:9559,3560;1; 34:18,351;12; 10,12,21,487,102; 325:741,40,20,460,4; 451:22,494,6 34:18,351;12; 10,12,21,487,102; 325:7341,61 373:37118; digging (2) 480:6481;2,499:17, 51,16,20,400; 533:41,41717; 629:10 372:372:11,4; 393:3483,11; degrees (1) 493:3,15,394,27,11,4; 591:19,22; 391:2,400:13; 393:3483,11; delayed (2) 495:2,916,20; 491:2,422,6; 567:15 542:13,396:17; 446:3,404:13,14,15 12,18,22,4984,48,13; 527:12,144; 485:24 485:24 delayed (1) 552:16,21,527; designer (1) 397:11 416:7409; 13:444:18; 494:53 537:10,5382,7] designer (1) 397:11 500:50; 11:503:11; 51:44; delayed (1) 557:16; 567:14; 560:8; deviation (1) 397:11 <td></td> <td></td> <td></td> <td></td> <td></td>					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	334:18;353:12;	10,12,21;487:10,22;	382:4;534:16	357:3;371:18;	digs (1)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{rcl} \textbf{delay (7)} & 14, 18, 495; 22, 16, 20; \\ \textbf{dets} (1) & 496; 21, 18, 497; 14, 9, \\ \textbf{dets} (2) & 496; 21, 18, 497; 14, 9, \\ \textbf{dets} (2) & 496; 21, 18, 497; 14, 9, \\ \textbf{dets} (2) & 496; 21, 18, 497; 14, 9, \\ \textbf{dets} (2) & 496; 21, 12, 12, 12, 12, 12, 12, 12, 12, 12,$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$					
$\begin{array}{rcl} \mbox{delayed} (2) & 499:59,12,19; & designed} (3) & 582:11 & 459:1505:11;513:4; \\ 494:8,8 & 525:12,14,21; & 365:3,5:450:8 & devote} (1) & 560:20 & \\ \mbox{delaye} (1) & 526:16;21;527:3; & designer} (1) & 397:11 & direction} (6) & \\ \mbox{495:3} & 535:7;536:7;14,22; & 527:11 & devoted} (1) & 441:8;466:14; & \\ \mbox{delegated} (1) & 537:10:538:2.9; & desirable} (1) & 397:11 & 509:5621:20; & \\ \mbox{54:9} & 556:16;557:4;560:8; & 426:10 & diagram} (1) & 635:15;639:8 & \\ \mbox{deliberately} (1) & 608:19,22 & desire (2) & 455:4 & directions} (3) & \\ \mbox{61:72.2} & density} (1) & 349:11;515:11 & dialing} (3) & 387:19:409:21; & \\ \mbox{deliberations} (1) & 565:11 & desired} (1) & 472:1,12,14 & 438:21 & \\ \mbox{64:3:22} & department} (25) & 340:20 & diameters} (1) & 433:14:9:1,02,12; & \\ \mbox{deliberations} (1) & 340:8 & desk (1) & 354:7;439:6 & 363:5;400:4; & \\ \mbox{64:3:22} & department} (25) & 340:20 & diameters} (1) & 423:14:511:21,22; & \\ \mbox{deliver} (3) & 338:2;399:8; & destroyed} (1) & 598:18 & 516:8;621:15;627:1 & \\ \mbox{55:20} & 349:2;336:13; & destroyed} (1) & 598:18 & 516:8;621:15;627:1 & \\ \mbox{55:21} & 349:2;2;362:12; & 598:2,6 & 618:18 & 336:4;479:21; & \\ \mbox{35:1:8} & 405:10,11,15,17; & detail (3) & difference} (3) & 480:15;481:21; & \\ \mbox{delivered} (1) & 351:3;52:2;362:12; & 598:2,6 & 618:18 & 336:4;479:21; & \\ \mbox{373:5;452:14} & d05:10,11,15,17; & detail (3) & differences} (1) & directors (1) & \\ \mbox{373:5;452:14} & d05:10,11,15,17; & detail (3) & differences} (1) & directors (1) & \\ \mbox{373:5;452:14} & d05:10,733:11; & 597:11 & 505:11 & \\ \mbox{373:5;452:14} & d13:20;03:57 & 506:3;518:19; & 527:16 & 505:11 & \\ \mbox{373:5;452:14} & departments} (8) & 445:5;504:20; & 7:557:6;506:12; & 439:2 & \\ \mbox{373:5;452:14} & departments} (1) & determine (16) & 496:7;497:22;498:1, & 414:7 & \\ \mbox{338:11} & 391:14;392:5; & 1;503:5; & DIRT (1) & \\ \mbox{338:11} & 391:14;392:5; & 1;503:5; & 597:19;604:1; & disappointed} (1) & \\ \mbox{338:11} & 391:14;392:5; & 1;503:5; & 597:19;604:1;$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					direction (6)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
635:5 deny (1) 366:7 dialogue (2) directly (8) deliberations (1) 340:8 desk (1) 354:7;459:6 363:5;400:4; 643:22 department (25) 340:20 diameters (1) 423:14;511:21,22; deliver (3) 338:2;339:8; destroyed (1) 598:18 516:8;621:15;627:1 354:1;1369:11; 341:14,16;342:10; 410:15 Diego (3) director (12) 355:20 345:4;348:7;350:13; destructive (2) 480:7;502:19; 336:4;479:21; delivering (1) 340:8;8411:9;430:3; 346:17;347:16; 618:18 336:4;479:21; demonstrate (2) 437:9;471:17;590:7; detaild (3) difference (3) 480:15;481:21; demonstrate (2) 437:9;471:17;590:7; detaild (3) difference (1) 505:11 373:5;452:14 613:20;635:7 506:3;518:19; 527:16 505:11 demonstrate (1) 352:1;356:19; detect (2) 381:2;387:10,13,18, 440:8 denied (1) 357:18;405:12; 598:15;630:5 19;391:7;408:15; 388:5;452:18 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
deliberations (1)340:8desk (1)354:7;459:6363:5;400:4;643:22department (25)340:20diameters (1)423:14;511:21,22;deliver (3)338:2;339:8;destroyed (1)598:18516:8;621:15;627:1354:11;369:11;341:14,16;342:10;410:15Diego (3)director (12)595:20345:4;348:7;350:13;destructive (2)480:7;502:19;334:22;335:8;delivered (1)351:5;352:2;362:12;598:2,6618:18336:4;479:21;difference (3)480:15;4411:9;430:3;346:17;347:16;416:5;577:9;500:7;508:22;509:8,399:5431:21;432:10;629:13620:1817;510:8;512:19demonstrate (2)487:9;471:17;590:7;detailed (3)differences (1)directors (1)373:5;452:14613:20;635:7506:3;518:19;527:16505:11demonstrated (2)departmental (1)632:4different (43)directors (1)39:12;560:7371:10detet (2)381:2;387:10,13.18,440:8denied (1)357:18;405:12;598:15;630:519;391:7;408:15;DIRT (1)586:17352:1356:19;detect (2)381:2;387:10,13.18,440:8denies (1)434:1597:11473:16;485:19;disagree (2)517:18420:2;430:7;431:15;getecting (1)417:21;46:11,71,8;388:5;452:18denies (1)397:8;502:8;554:18;561:3;571:3;575:6;577:8,disagree (1)338:11,19;339:10,397:8;502:8;554:18;561:3;571:3;575:6;577:8,disasters					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		department (25)			
595:20 $345:4;348:7;350:13;$ $351:5;352:2;362:12;$ $598:2,6$ $480:7;502:19;$ $618:18334:22;335:8;336:4;479:21;336:4;479:21;detail (3)delivering (1)408:8;411:9;430:3;408:8;411:9;430:3;399:5431:21;432:10;420:8;411:9;430:3;431:21;432:10;420:8;411:9;430:3;431:21;432:10;420:373:5;452:14detail (3)413:20;635:7506:3;518:19;527:16difference (3)416:5;577:9;500:7;508:22;509:8,500:7;508:22;509:8,500:7;508:22;509:8,500:7;508:22;509:9;373:5;452:14detaile (1)632:4detaile (2)439:12;560:7371:10detamental (1)details (2)586:17557:18;405:12;598:15;630:5;598:15;630:5;598:15;630:5;19;391:7;408:15;147:21;461:17,18;388:5;452:18440:8detect (2)331:18;334:10,11;397:8;502:8;554:18;561:3;571:11473:16;485:19;414:7disappointed (1)514:13Department's (1)397:8;502:8;554:18;561:3;571:13;575:6;577:8,439:8333:11,19;339:10,397:8;502:8;554:18;561:3;571:13;575:6;577:8,439:8333:11,19;339:10,397:8;502:8;554:18;561:3;571:13;575:6;577:8,430:8434:12,22;340:14,19;322:16;596:22;564:10,16;580:22;18;587:2;589:4;430:8434:12,22;340:14,19;322:16;596:22;564:10,16;580:22;593:9;596:14;435:2430:8434:14;435:9;434:14;435:9;434:14;435:9;434:14;435:9;440:14,11,15,21;342:12,21;348:9,16,detemine (4)342:12,21;348:9,16,determine (4)420:2;437:12;48:9,16,determine (4)434:14;435:9;434:14;435:9;434:14;435:9;434:14;435:9;434:14;435:9;434:14;435:9;434:14;435:$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
373:5;452:14613:20;635:7506:3;518:19; 632:4527:16505:11demonstrated (2) 439:12;560:7departmental (1) 371:10632:4different (43)directory (1)demonstrating (1) 586:17departments (8) 352:1;356:19; 420:2;430:7;431:15;details (2) 489:9;509:9374:18;380:15; 381:2;387:10,13,18, 440:8DIRT (1)denied (1) 517:18357:18;405:12; 420:2;430:7;431:15;598:15;630:5 detect (2)19;391:7;408:15; 473:16;485:19; disagree (2)denies (1) 514:13434:1Department's (1) 383:11determine (16) 445:5;504:20; 554:18;561:3;473:16;485:19; 571:3;575:6;577:8, 439:8disagre (1) disaster (1)333:18;334:10,11; 333:18;334:10,11; 342:12,21;343:3,6, 644:6,9397:18;502:8; 664:6,9554:18;561:3; 664:10,16;580:22; 564:10,16;580:55; 597:19;604:20; 597:19;604:20; 597:19;604:20; 435:2disasters (1) 435:2342:12,21;343:3,6, 342:12,21;343:3,6, 22;344:14,18,22; 22;344:14,18,22; 345:7,12;346:3,7,14, 22;347:21;348:9,16,depending (1) 662:2643:7 deployed (1)506:3;518;346:1; 641:17; 611:10,15;621:6; differently (2)476:10					
demonstrated (2) 439:12;560:7departmental (1) 371:10632:4 details (2)different (43) 352:17,20;362:12; 360:7directory (1) 360:7demonstrating (1) 586:17departments (8) 352:1;356:19; 586:17352:1;356:19; 352:1;356:19; 357:18;405:12; 420:2;430:7;431:15; denies (1)detect (2) 598:15;630:5374:18;380:15; 19;391:7;408:15; disagree (2)DIRT (1) 360:7denies (1) 514:13357:18;405:12; 434:1598:15;630:519;391:7;408:15; 447:16;485:19; detect (2)disagree (2) 388:5;452:18denies (1) 514:13434:1597:11473:16;485:19; 496:7;497:22;498:1, 414:7disappointed (1) 414:7DENNIS (161) 333:18;334:10,11; 338:11,19;339:10, 22;340:14,19; 22;340:14,19; 342:12,21;343:3,6, (434:6,9)391:14;392; 604:20;643:7571:3;575:6;577:8, 605:5; 6593:9;596:14; 602:13;605:5; 697:19;604:20; 602:13;605:5; 697:19;604:20; 602:13;605:5;disclosing (1) 435:2depends (1) 345:7,12;346:3,7,14, 22;347:21;348:9,16, deployed (1)632:4 440:8differently (2)436:1 476:10					
demonstrating (1)departments (8) $489:9;509:9$ $374:18;380:15;$ DIRT (1)586:17 $352:1;356:19;$ detect (2) $381:2;387:10,13,18,$ $440:8$ denied (1) $357:18;405:12;$ $598:15;630:5$ $19;391:7;408:15;$ disagree (2) $517:18$ $420:2;430:7;431:15;$ detecting (1) $417:21;461:17,18;$ $388:5;452:18$ denies (1) $434:1$ $597:11$ $473:16;485:19;$ disappointed (1) $514:13$ Department's (1)determine (16) $496:7;497:22;498:1,$ $414:7$ DENNIS (161) $383:11$ $391:14;392:5;$ $1;504:3;505:3;532:7,$ disaster (1) $333:18;334:10,11;$ depending (8) $445:5;504:20;$ $7;557:6,6;566:12;$ $439:8$ $338:11,19;339:10,$ $397:8;502:8;$ $554:18;561:3;$ $571:3;575:6;577:8,$ disasters (1) $22;340:14,19;$ $529:16;596:22;$ $564:10,16;580:22;$ $18;587:2;589:4;$ $430:8$ $341:11,15,21;$ $597:18;600:13;$ $586:9;588:2;590:5;$ $593:9;596:14;$ disclosing (1) $342:12,21;343:3,6,$ $634:6,9$ $602:13;605:5;$ $597:19;604:20;$ $435:2$ $12,22;344:14,18,22;$ depends (1) $606:20;643:7$ $611:10,15;621:6;$ disclosure (3) $345:7,12;346:3,7,14,$ $362:8$ determined (4) $627:12;637:7$ $434:14;435:9;$ $22;347:21;348:9,16,$ deployed (1) $345:18;346:1;$ differently (2) $476:10$				different (43)	directory (1)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0, , ,		-		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
514:13Department's (1)determine (16) $496:7;497:22;498:1,$ $414:7$ DENNIS (161) $383:11$ $391:14;392:5;$ $1;504:3;505:3;532:7,$ $disaster (1)$ $333:18;334:10,11;$ $depending (8)$ $445:5;504:20;$ $7;557:6,6;566:12;$ $439:8$ $338:11,19;339:10,$ $397:8;502:8;$ $554:18;561:3;$ $571:3;575:6;577:8,$ $disasters (1)$ $22;340:14,19;$ $529:16;596:22;$ $564:10,16;580:22;$ $18;587:2;589:4;$ $430:8$ $341:11,15,21;$ $597:18;600:13;$ $586:9;588:2;590:5;$ $593:9;596:14;$ $disclosing (1)$ $342:12,21;343:3,6,$ $634:6,9$ $602:13;605:5;$ $597:19;604:20;$ $435:2$ $12,22;344:14,18,22;$ $depends (1)$ $606:20;643:7$ $611:10,15;621:6;$ $disclosure (3)$ $345:7,12;346:3,7,14,$ $362:8$ $determined (4)$ $627:12;637:7$ $434:14;435:9;$ $22;347:21;348:9,16,$ $deployed (1)$ $345:18;346:1;$ $differently (2)$ $476:10$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		depending (8)			
341:11,15,21; 342:12,21;343:3,6, 12,22;344:14,18,22; 22;347:21;346:3,7,14, 22;347:21;348:9,16,597:18;600:13; 634:6,9586:9;588:2;590:5; 600:13;605:5; 6002:13;605:5; 606:20;643:7593:9;596:14; 597:19;604:20; 611:10,15;621:6; 611:10,15;621:6; disclosure (3)345:7,12;346:3,7,14, 22;347:21;348:9,16,597:18;600:13; 634:6,9606:20;643:7 606:20;643:7611:10,15;621:6; 627:12;637:7disclosure (3) 434:14;435:9; 434:14;435:9;	338:11,19;339:10,	397:8;502:8;		571:3;575:6;577:8,	disasters (1)
342:12,21;343:3,6, 12,22;344:14,18,22; 345:7,12;346:3,7,14, 22;347:21;348:9,16,634:6,9 depends (1)602:13;605:5; 606:20;643:7597:19;604:20; 611:10,15;621:6; defermined (4) 345:18;346:1;435:2 disclosure (3) 434:14;435:9; differently (2)					
12,22;344:14,18,22; 345:7,12;346:3,7,14, 22;347:21;348:9,16,depends (1)606:20;643:7 determined (4)611:10,15;621:6; 627:12;637:7disclosure (3) 434:14;435:9; 476:1012,22;347:21;348:9,16,deployed (1)345:18;346:1;differently (2)434:14;435:9; 476:10					
345:7,12;346:3,7,14, 22;347:21;348:9,16,362:8 deployed (1)determined (4) 345:18;346:1;627:12;637:7 differently (2)434:14;435:9; 476:10					
22;347:21;348:9,16, deployed (1) 345:18;346:1; differently (2) 476:10					
		110,7		100.21,109.10	

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (10) deficiencies - discovered

	-
451:21	distrust (1)
discrepancies (1)	357:14
539:12	division (11
discuss (6)	341:3;479
362:1;418:10;	480:16;50
470:5;483:15;489:1;	13;516:2,
506:7	517:9,12
discussed (8)	document (
359:1;370:1;	372:2,12;
484:14;595:11; 602:17;608:2;610:3;	436:4;440
642:21	507:20;58
discussion (17)	documenta
359:10;391:10;	342:13;49
392:20;398:5;408:5;	496:16;49
418:9;437:17;	510:6;629
438:12;449:16;	documentee
464:13;521:9;523:4;	347:9
525:11;564:5;585:5;	documents
597:22;609:9	485:9;623
discussions (5) 348:21;530:5;	dollars (3) 611:20;62
554:5;607:8,9	Dominion (
disincentive (1)	476:1,1,1
633:21	done (43)
disk (1)	345:11;34
367:12	363:15;38
disks (1)	386:9;389
475:6	397:21;39
dispatch (4)	404:15;40
349:5;407:20; 409:9;419:15	412:22;42
dispatchers (4)	447:18;44
367:10;408:13,19;	451:14;46
419:22	470:3;473
disposal (1)	11;510:7;
600:5	539:2;550
disregard (1)	577:20;58
533:13	594:3;606
distance (2) 466:14;587:13	614:5;620 632:18,20
distinction (3)	636:12
378:4;379:14,17	door (2)
distinguish (2)	376:17;41
380:16,18	doors (1)
distribute (2)	364:1
542:3;582:5	DOT (1)
distributed (3)	607:3
351:14,15;473:7 distributing (2)	down (33) 338:21;34
367:1;482:2	368:5;376
distribution (20)	389:16;40
340:5;379:15;	409:1,7,1
380:4,9,11,14,19;	422:2;447
471:1;475:18;	449:1,2;4
500:19;502:5,8,9,20;	464:14,17
518:1;544:10,21;	534:2;548
552:8;555:9;594:20 distribution-type (1)	560:16;57 587:14;59
348:2	595:16;61
district (4)	613:9,13;
502:6;506:14;	637:15
624:20;638:2	downloaded

360:13;430:22; 431:10 ion (11) downside (2) 1:3;479:22; 595:9,18 0:16:502:6:512:7. downstream (1) 516:2,10,13; 383:8 downturns (1) ment (10) 548:5 2:2,12;400:8,15; dozens (1) 6:4:440:21; 632:3 1:13:493:16; **DR**(1) 7:20;582:3 643:10 mentation (6) **DRA (3)** 516:18;517:7,8 2:13;495:13; 6:16:497:20; draw (1) 0:6:629:9 477:12 mented (1) drawn (1) 407:19 ments (2) drill (2) 5:9:623:18 389:16:464:17 drilling (2) 1:20:625:9.13 389:22:416:22 drills (2) inion (3) 6:1,1,19 342:11,13 drink (1) 5:11;346:15; 443:8 3:15;381:11; Drive (6) 6:9;389:3;393:20; 349:15,17;443:8 7:21;398:7,19; 551:15;580:1,5 driven (3) 4:15;405:4; 2:22:421:3:424:6, 376:2,3;377:11 ,20;425:4;426:2; dry (3) 7:18;448:20; 406:10;427:16; 1:14;461:22; 428:5 0:3;473:5;503:11, **DSAW (6)** 510:7;518:20; 523:6;524:7,10, 9:2;550:13;569:2; 21;529:8 7:20;584:16; dug (1) 4:3;606:19;608:8; 576:17 duly (2) 4:5;620:21; 2:18,20;633:5; 334:4;479:1 dumped (1) 383:6 6:17:417:15 duration (2) 532:15;579:12 During (20) 338:11:369:6; 372:11;407:9;4 439:8;440:14; 8:21;344:7; 454:22;460:20; 8:5:376:20:377:3; 485:11:504:8:50 9:16;408:21; 519:22;523:5; 9:1,7,16;416:22; 541:14,15,20; 2:2;447:12,17; 556:18;569:20;0 9:1,2;460:8; duties (2) 4:14,17;472:20; 334:8;479:16 4:2;548:14; **DVD (3)** 0:16;577:5;581:8; 340:22;350:19; 7:14:591:14: 359:3 5:16:612:22; dynamic (1) 3:9,13;626:21; 507:21 loaded (3)

	Е	
		effe
	earlier (28)	4 effe
	342:14;343:6; 368:7;399:17;	3
	408:16;409:17;	3
	411:21;415:1;418:8;	3
	420:20;421:9;426:9;	1
	427:16;428:5;	
	430:20;431:8;	4
	451:13;452:22;	4
	454:15;464:13; 577:14;584:18;	4
	586:6,20;591:21;	5
	593:5;599:10;602:19	effic
	early (4)	
	344:1;583:15;	effo
	594:16;605:20	3
	easier (3)	
	441:11;447:20; 636:14	4
	easy (4)	5
	442:9;567:6;	5
	627:2;633:4	6
	ECA (1)	6
8;	487:13	effo
ο,	ECDA (1)	3
	537:13 echo (4)	3
	400:20;547:20,21,	1
	22	3
	economic (3)	4
	546:5;548:4;549:9	4
,19,	economics (1)	5
,17,	334:19 economy (1)	egre
	607:22	ິ 6
	edition (2)	eigh
	415:4,5	3
	educate (3)	5 eith
	362:3;381:8;	
	420:21 educating (1)	4
	374:13	5
	education (5)	5
10.0	373:22;374:3,12;	5
18:8;	381:6;386:20	5
	effect (4)	6
06:3;	366:7;564:9; 587:4,17	elat
,	effected (1)	3
	463:8	4
603:6	effective (29)	elec
	340:17;354:11;	
	377:15;378:21;	Elec
	384:12;394:19;	3
	440:2,16;443:11; 462:15,18;472:22;	4
	473:1;546:3;550:11;	4
	567:12;573:6;	6
	585:10,16;586:2,4,8,	6
	10;588:13;589:17;	elec

March 2, 2011

590:5;603:3;627:15,
16 offectively (2)
effectively (2) 440:4;598:19
effectiveness (28)
363:16,20;368:19;
373:4,5;376:14; 377:13,22;378:10,
11;391:21;392:2;
393:14;394:4;424:1;
449:13;450:4,17,18; 452:13;453:11;
460:22;463:14;
486:19;487:3;540:4;
587:13,16
efficient (2) 387:4;588:16
effort (19)
344:13;355:7;
382:9;384:20;391:3,
14;414:11;440:22; 441:20;535:4;
546:11;553:13;
569:4;596:4;599:17;
600:11;602:21;
614:8;633:5 efforts (22)
336:9;358:11;
367:5;368:11;370:2;
376:1;377:11;384:5, 19;385:12;389:22;
397:10;403:5;
413:19;423:18;
425:18;441:3;541:6;
552:1;555:22; 575:18;600:2
egregious (1)
617:14
eight (3) 350:11;450:22;
568:11
either (17)
360:13;456:1; 464:20;487:3;497:3;
404.20,487.5,497.5, 509:19;517:22;
529:14;537:16;
558:14;588:10;
599:20,20;600:15; 608:17;609:12;
617:11
elaborate (3)
393:16;486:17; 494:22
elected (4)
336:7,8;389:12;
398:15
Electric (13) 336:13;339:11;
418:11;419:3,17;
420:6;480:19,19;
615:9,14;617:5; 618:17,18
electrical (6)

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (11) discrepancies - electrical

338:21:340:2; 347:7,12,13:380:5 electricity (1) 480:4 electric-related (1) 359:11 electronic (5) 351:8:354:19: 357:3;415:5,7 electronically (1) 415:18 element (2) 372:22:575:20 elements (2) 398:11;637:7 elevate (1) 398:7 elevated (1) 445:1 eliminate (1) 597:9 else (10) 492:7:535:5: 573:12,17,18:609:2: 615:6:635:1:643:16. 16 e-mail (2) 349:10:354:22 E-mails (1) 402:12 emergencies (9) 347:2,8;348:3; 350:12:356:10: 359:15;369:5; 414:17;415:1 emergency (47) 348:8;350:21; 352:9;353:14; 357:11;358:20; 359:2,13;361:12; 366:11;367:9,22; 368:17:370:11,14; 373:14;374:20; 376:19;381:22; 399:3;400:2;413:14; 414:21;415:8,18; 418:12,17,19; 419:12.18:421:13: 423:8;426:14,22; 433:22;434:1; 436:19;445:20; 458:2,2,6,8,17; 459:3;463:9;468:21; 540:20 emergent (1) 413:13 emission (1) 340:9 emotion (1) 637:12 emotionally (1) 417:18 emphasis (2)

369:10:441:21 employ (2) 365:10;568:9 employed (1) 511:12 employee (1) 473:22 employees (6) 511:15,17;536:3; 546:17,18;547:7 employs (1) 364:7 encounter (1) 374:8 encountered (1) 420:7 encountering (1) 375:8 encourage (1) 610:1 encouraged (2) 453:1:474:10 encouragement (1) 565:15 encouraging (1) 357:18 encroachment (1) 400:9 end (3) 410:13;490:18; 608:6 endangering (1) 634:16 ends (1) 388:13 energy (5) 421:21;480:9; 512:8;515:11:516:10 enforce (2) 544:9:636:5 enforcement (28) 357:11:424:4; 465:8;480:20; 481:12:482:8; 509:20,20;512:3,14; 513:5;541:8,9; 544:19:590:3; 616:18:617:2.3.7.15: 619:13:634:4:635:8; 637:20,22;638:4,13, 19 enforcements (1) 403:2 engage (2) 370:2;441:1 engaged (2) 366:1;372:9 engagement (1) 368:1 engaging (1) 453:19 engineer (4) 479:14:481:15;

482:5,13 engineering (6) 336:19;481:11; 499:19:558:5:559:1; 578:14 engineers (8) 479:17:484:7: 543:10:546:22: 548:12;555:15; 627:6;640:12 engines (1) 341:17 enhance (4) 366:17;367:9: 469:9:553:7 enhanced (2) 349:6:398:22 enhancements (1) 572:4 enhancer (1) 584:1 enhancing (1) 348:21 enlarging (1) 404:19 enlighten (1) 570:1 enormous (1) 609:11 enough (1) 515:13 ensuing (1) 446:21 ensure (4) 377:13:391:12; 554:4,14 ensuring (1) 375:15 entering (1) 485:21 enterprise (1) 630:1 entice (1) 454:14 entire (6) 364:20;468:20; 484:1;536:2;615:8; 624:15 entirely (1) 436:10 entitled (2) 350:11;621:17 entry (1) 340:8 **Environment (7)** 335:15;380:3; 381:15;382:5;550:1; 567:4:580:9 environmental (2) 335:12:336:19 equipment (3) 565:1.4.5 equivalent (1)

579.14 equivalents (1) 624:5 error (2) 467:16:633:21 ERW (4) 527:3,4;529:8; 563:4 escalated (1) 617:7 especially (6) 403:2;423:12,17: 521:11:546:5:566:1 essence (1) 561:1 essential (1) 471:18 essentially (8) 338:14:447:3: 448:17;519:19; 527:19:532:17: 554:9:638:1 establish (6) 533:11;579:3; 580:15:581:9: 593:12:642:18 established (7) 395:9:446:22: 469:8;495:14; 520:20;522:16; 642:20 establishes (2) 449:9:591:3 estate (2) 434:14:435:3 estimate (2) 625:20,21 estimates (1) 608:11 et (3) 372:10;438:16; 442:19 evacuation (1) 420:12 evacuations (1) 342:7 evaluate (11) 373:3:378:11: 426:5;449:10; 461:21;486:14; 585:20;623:10; 627:7,12;643:5 evaluated (1) 423:22 evaluating (6) 371:18:449:13: 492:8;540:3;545:13; 627:15 evaluation (23) 391:21:399:11: 401:13.15:426:2.6: 449:15.22:452:9.12: 485:1;487:1;540:9,9,

March 2, 2011

17:541:3,15:542:11, 12:547:15:551:14; 585:16;618:7 evaluations (5) 392:3:394:4: 402:3:482:1:542:5 even (18) 380:8:386:14: 398:11;417:5; 420:14;427:18; 429:16,22;443:8; 452:13;475:16; 476:21:521:13; 549:16;590:21; 629:13:634:21; 635:18 evening (1) 407:10 event (7) 339:2;348:2; 383:10:468:18: 557:5:576:10:577:10 events (6) 361:9:363:7: 398:13:401:4.5: 472:13 everybody (2) 387:12;584:5 everybody's (1) 433:19 everyone (8) 377:2;403:3; 451:18;460:14,22; 501:19;534:12; 643:16 everyone's (1) 631:4 evidence (1) 524:15 evolving (1) 415:3 exact (3) 361:20;406:16; 489:9 exactly (11) 432:20;433:3; 471:11:486:1,4,13; 499:6;508:16;535:2; 538:5;621:20 **EXAMINATION (1)** 479:4 examine (2) 559:3;606:6 examining (3) 493:19;494:8; 550:11 example (32) 342:11:352:18; 359:14:366:11.13: 367:3,7:374:18; 377:16.16:378:12: 394:16:395:10: 402:8,14;408:18;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (12) electricity - example

PG&E Gas Transmissio	on Pipeline - DAY 2			March 2, 2011
410:2;416:12;	existing (1)	448:20	384:10	611:10;613:8;
419:11;456:6;514:2;	400:12	expound (4)	failure (4)	620:18;621:12,14;
526:1;544:11;545:8;	exists (1)	345:9;426:11;	413:18;414:3;	622:1,3,9;624:11;
550:8;570:20;	353:13	513:21;535:1	597:5;605:21	625:3,9,13;626:3,4,
579:22;585:11;	exiting (1)	extensive (1)	failures (1)	7;634:3
590:12;601:9;	462:13	569:9	414:2	feds (3)
602:20;603:13	exits (3)	extent (3)	fairly (3)	553:4;623:4;626:3
examples (1)	437:22;438:6,19	437:2;495:1;	464:15;533:7,18	feedback (13)
442:13	expand (2)	505:15	fall (1)	366:13;367:7;
excavated (1)	545:12;614:4	external (1)	626:21	369:6,8;394:22;
577:16	expect (10)	578:1	falls (1)	414:16;420:3;
excavating (3)	392:4;395:3,7;	extra (1)	496:15	424:12;425:19;
439:18;493:18;	402:20;433:15;	439:14	familiar (4)	470:12;501:22;
495:4	473:22;522:20;	extremely (2)	339:1;437:7;	547:13;630:9
excavation (5)	558:4;559:17;563:5	420:3;429:15	438:18;491:22	feeding (1)
404:20;405:1;	expectation (4)		familiarity (1)	469:22
451:20;472:13,20	351:4;452:12;	F	632:2	feel (6)
excavators (2)	635:20,22		family (1)	399:2;449:21;
381:20;463:9	expected (3)	face (4)	421:17	456:14;457:1;610:1;
exceed (5)	395:17;563:16;	339:17;402:12;	FAQs (1)	638:11
529:11,22;579:15;	586:8	547:10;596:12	569:6	feels (2)
580:2;581:2	expenditures (2)	face-to-face (5)	far (22)	419:14;524:12
exceeded (1)	514:15;516:16	354:7,16;356:13;	358:7;395:3,15;	fellow (1)
581:2	experience (6)	357:4;427:9	397:9;398:6;400:7;	390:18
except (1)	334:12;398:14;	facilitate (5)	403:3;405:2,6,6;	FERC (3)
506:3	413:2;520:7;547:8,8	356:16;357:15;	415:11;419:20;	590:12,12,14
exception (8)	experienced (1)	403:12;427:2;468:2	427:6,22;446:7;	few (14)
493:2,4,5,10;	531:6	facilitating (1)	472:2;473:12;492:2;	358:15;370:5;
494:1,5,12,21	experiences (1)	469:18	594:7;600:1;624:15;	375:20;376:19,19;
excess (1)	352:20	facilities (11)	636:1	384:22;399:20;
419:21	experiencing (2)	359:13;362:4;	fared (1)	459:16;467:4;483:4;
exchange (7)	582:19;589:7	369:16;500:19,20,	511:1	526:9;576:2;601:5;
342:17;344:13;	expert (3)	20;501:9;566:20;	Farm (1)	622:20
553:14;588:10,18;	365:4;514:7;	590:13;625:2;631:9	430:17	field (4)
589:16;590:19	595:12	facility (2)	fascinating (1)	475:8;541:10;
exclusively (2)	expertise (4)	566:21;640:11	612:10	568:21;637:2
367:13;419:13 excuse (3)	366:22;453:20; 477:12;596:9	facing (3) 381:5;546:1;	fashion (1) 488:18	fighting (2) 409:9;447:10
339:6;517:4;641:3	experts (3)	547:18	Fassett (9)	figure (9)
excused (1)	412:16;457:13;	fact (20)	641:6,11,12;642:3,	389:11;460:1,3,6;
477:19	637:2	341:5;345:7;	15,19;643:2,5,20	558:22;578:4;586:4;
execute (1)	explain (11)	365:16;377:14,21;	Fasten (1)	598:20;638:3
536:20	370:7:458:10;	400:12;407:11;	443:7	file (5)
executed (3)	517:5;527:15;535:5;	411:21;442:2;457:4;	FDA (1)	477:17;484:11;
369:3;450:8;	536:16;538:16;	522:8;550:9;554:22;	589:22	515:18;518:3,9
499:15	540:2;550:12;577:4,	587:9;589:20;	feasibility (1)	files (4)
executive (6)	5	605:15;607:21;	606:19	484:5;534:20;
334:22;336:4;	explanation (3)	621:12;630:14;642:9	feature (2)	535:19,22
508:21;509:17;	518:19;525:4,9	factor (5)	421:20,20	filling (1)
510:8;571:1	exploiting (1)	557:22;559:5;	February (1)	485:20
exercise (1)	611:8	560:6;562:22;563:8	565:20	final (3)
615:21	exploration (1)	factors (12)	federal (43)	443:5;596:2;644:3
exercises (3)	530:14	450:14;500:4;	372:5,7;383:13;	finance (1)
359:3;368:6;616:2	explore (4)	541:22;562:7;564:7,	392:11;393:13;	481:2
Exhibit (11)	511:6;513:14;	12;591:18,20,22;	423:6;427:1;436:6;	find (34)
405:21;409:12,13;	520:10;523:20	592:11;629:22;630:2	457:22;478:4;	354:22;355:2;
421:7;422:15;449:6;	exploring (1)	facts (1)	483:15;504:2;	363:3;382:15;
450:12,13;455:2;	617:18	638:12	505:18;510:1;513:7;	389:16;390:1,21;
522:10;643:10	explosion (8)	factual (2)	533:5;544:9;550:2;	397:16;433:8;442:4;
exhibits (2)	406:11;407:6;	412:15,21	559:16;569:19;	459:17;461:10;
376:22;484:9	409:8;412:4;428:8;	fail (1)	578:20;579:10;	466:12;467:10;
exist (1) 550-13	429:18,20;446:20	595:8 failed (1)	581:14;583:3;	521:15;523:14,21;
559:13	exposures (1)	failed (1)	589:16;590:4;610:2;	524:21;530:16;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (13) examples - find

PG&E Gas Transmissio				March 2, 2011
562:9;576:12;582:7;	353:18;365:18;	336:6;383:3	632:16:640:19	FTEs (2)
589:9;612:10;616:5,	367:21;386:22;	focusing (4)	found (18)	624:4,10
10;630:18,19;	387:3;393:14;	393:9;442:18;	345:2;349:19;	fuel (4)
631:10;632:9;	399:20;404:13;	503:7;633:6	389:15;487:14;	388:4;412:5;
633:18;634:4,15;	409:2;413:1,10,17;	folks (15)	490:3,6;493:4,19,21;	446:21;449:2
635:4	416:7;417:20;	375:3;380:13;	537:15,20;573:3;	fuels (1)
finding (16)	423:10;424:8;	410:15;447:14;	596:16,18;599:16;	335:10
429:16;488:7,14;	427:15;433:10;	500:10;509:18;	601:19;602:4,18	fulfill (1)
489:18;490:21;	437:10;439:10,20;	512:7,8;536:8;549:6,	foundational (1)	508:17
497:3;502:13;504:7,	440:13;443:15,22;	10,20;583:1;595:12;	420:5	full (5)
8,10;509:12;572:20;	448:1;455:20;456:1,	615:15	four (16)	334:7;414:1;
590:18;608:21;	7;458:9;460:2;	follow (7)	368:22;388:14;	542:17;582:19;
616:10,12	469:14,15;471:5,7,8,	436:17;449:7;	438:9;441:4;481:1;	607:12
findings (15)	14;474:8;479:1;	474:12;593:7;606:9;	484:7;486:8;490:9;	full-time (2)
487:7;488:12;	523:8;524:19;	610:22;643:17	497:17,19;499:12;	615:2;624:4
489:1;490:13;491:4; 492:2,19;502:14,14;	549:15;554:2;570:3, 4;593:21;597:16;	following (4) 458:22;524:20;	511:2;540:18; 568:11;591:6,13	fully (3) 366:1;396:13;
492.2,19,302.14,14, 505:16;509:12;	605:15;612:4,7;	535:20;630:2	Fourteen (1)	561:20
521:14;539:4,8,18	613:17,21;621:2;	follows (3)	451:16	function (2)
fine (2)	629:7;634:2;635:14,	334:5;479:3;	fourth (4)	466:1;598:18
411:17;412:15	14;637:1	641:15	478:4;560:17;	functions (2)
finish (1)	first-responder (2)	follow-up (8)	591:10;641:3	425:16;508:16
422:12	437:18;440:3	420:14:422:15;	four-year (1)	fund (2)
finishing (1)	fit (1)	445:6;464:6;571:15;	391:22	514:4;515:13
415:4	374:15	600:22;609:8;643:18	fracture (1)	funding (18)
Fire (82)	fits (1)	follow-ups (1)	528:7	482:2;510:1,10,18;
334:11,12,13,17;	381:9	568:16	framework (1)	513:3,7;542:2;
335:1,2,3,8;338:2;	five (27)	foot (1)	371:17	546:13;548:1,3,5,13;
339:8;340:13,18;	336:14;388:14;	606:15	Francisco (2)	550:10,17;552:20;
341:6,14,15;342:1,9;	446:3;501:6;511:3;	force (3)	334:19;442:14	582:6;623:9;640:4
344:7;348:22;349:4;	525:7,19,22;526:3,4,	642:8;643:7,12	frank (1)	furlough (2)
350:15;351:3,22;	6;528:8,19;529:3,21;	forecasting (1)	640:21	546:17,17
352:2;353:6,9,10,21;	530:2;531:7;548:6;	518:12	fraud (1) 480:21	furloughs (1) 546:8
354:12;355:11,21, 22;356:19,19;	550:16;556:2; 568:11;570:15,21;	foremost (1) 367:21	480.21 free (3)	further (10)
357:10,18;358:21;	578:18;580:21;	forget (1)	420:16;621:8;	370:2;406:20;
362:11;376:21;	624:18,20	502:5	639:11	420:19;422:11;
377:4;398:12;	five-year (10)	forgive (1)	freeway (2)	464:18;520:10;
405:11,14,17;406:7;	527:19,20;529:3,	458:19	338:15;343:17	524:12;530:13;
407:20;408:1,8;	12;531:1,1;533:16;	forgotten (2)	freezes (2)	572:4;577:20
409:14;410:15;	591:9,16;593:10	574:4;614:13	519:20,22	future (3)
411:9;413:2;414:7,9;	fix (2)	form (7)	freight (1)	522:22;555:19,21
415:16;417:8;	467:13;617:8	392:20;540:9,18;	480:4	
418:18;419:22;	fixed (1)	541:1,4;547:15;	frequencies (1)	G
427:19;430:3,7,9,12,	491:19	551:14	362:13	
15,21;431:9,14,21;	flags (3)	formal (2)	frequency (9)	gain (2)
432:10;433:22;	585:1;632:9,14	499:16;607:10	362:7;377:18;	416:10;463:6
437:22;438:3;446:9,	flesh (1) 571:14	format (2) 354:19;392:17	500:5;501:14;503:4;	gaining (1) 447:3
14;448:6;468:1,11; 469:18;471:16;	flow (4)	forms (2)	504:19,21;525:8; 538:12	gallons (1)
474:1;565:12;589:3	420:9;434:2;	483:20;598:2	frequent (3)	383:6
firefighter (3)	447:8;613:13	forth (7)	407:18;502:17;	game (2)
345:1;360:9;402:9	flows (1)	338:22;340:6,9;	607:20	382:12;638:20
firefighters (5)	613:9	342:7;348:12;	frequently (12)	gaps (1)
338:17;341:19;	focus (8)	362:13;551:9	392:21;427:6;	573:6
358:7;407:21;437:1	337:10;401:13;	forum (1)	493:5;501:2,17;	Gas (83)
firefighting (1)	438:11;441:22;	612:21	502:12;503:1,14;	335:16,18;336:13;
448:19	442:11,17;576:10;	forums (1)	538:14,19;567:21;	337:5,22;338:3,18,
fires (3)	628:6	612:12	570:19	20;339:9,12;340:2,7;
338:21,22;447:10	focused (4)	forward (9)	friends (1)	341:20;350:18;
first (61)	344:13;361:14;	382:17;384:20;	621:3	352:18;359:11;
334:4;340:15;	426:20;599:9	435:7;471:9;477:10;	front (2)	371:6;373:10,12;
351:12;352:12;	focuses (2)	514:9;630:21;	368:11;438:9	374:7;379:10,11;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (14) finding - Gas

PG&E Gas Transmissio	n Pipeline - DAY 2			March 2, 2011
380:1,4;383:21;	GIS (6)	Google (1)	381:20;383:3;394:6;	388:12;429:8,9;
386:18;404:17;	349:3;496:4,13,20;	455:2	418:16;450:13;	512:18;624:16,16
408:13,19;409:16,	498:3,6	Google-based (1)	453:20;481:10;	HALLIGAN (34)
20;411:20;418:11;	GIS-based (1)	466:10	506:13;507:19,19;	478:18;479:10;
419:3,17;420:6,9,22;	360:12	Gotcha (4)	516:20;521:10	480:10,11,12,14;
419:3,17,420:0,9,22, 429:17;430:17;	given (11)	431:7;486:11;	groups (11)	501:12,13,16;502:3;
433:11;439:18;	369:21;413:1;	638:20,21	356:14;374:15,16;	503:10;504:20;
441:15,18;447:5;	464:11;477:15;	go-to (1)	394:22;426:4;	514:6,17,19,22;
475:18,20,20;477:1;	503:2;539:4;543:16;	421:11	485:15;486:5,9,10,	515:2,17;517:8,11,
479:17,17;480:4,18;	545:2;623:12,12;	government (6)	11;518:8	20;518:21;523:1;
482:6;483:18,20;	638:9	549:8;550:2;	grow (1)	538:11,17;539:14,
498:16;499:2;	gives (7)	569:19;604:20;	597:4	16;573:19;574:3,14;
500:17;502:19;	342:1;359:12;	626:4,7	growing (1)	575:11;599:9,15;
507:1;511:9;512:9;	371:17;421:22;	governmental (1)	552:21	600:8
514:10,12;515:18;	466:2;619:14;639:11	359:9	grown (1)	halls (1)
518:4;519:19;520:1,	giving (7)		598:9	338:20
18;522:12;554:5,15;	374:14;396:11;	governments (1) 546:14	growth (1)	hand (7)
567:15,18;595:20;	406:15;428:14;	grab (1)	400:9	420:11;478:15;
604:18;615:10;	456:14;482:10;554:2	431:5		
			guess (8) 349:14;350:5;	515:8,12;563:2;
617:6,21;618:17,18; 638:22	glad (2) 390:9,12	grade (3)		583:5;586:17
		437:20;592:2,4	376:3;415:22;	handle (1)
gasoline (1)	Glendale (1) 349:15	grandfather (4)	446:19;515:9;	419:17
383:6		520:15;532:16;	535:21;605:22	handout (1) 420:11
gates (2)	Glenview (4)	534:3;591:15	guest (1)	
410:21,22	349:16,17,20;	grandfathered (4)	373:16	hands (4)
gather (2)	410:10	496:1;570:11;	guidance (6)	353:10;414:1,21;
372:11;508:7	global (1)	575:18;599:20	372:18;392:20;	433:18
gathered (1)	576:9	grant (7)	393:5;449:9;492:13;	happen (4)
440:15	glove (1)	482:2;542:4;	569:7	401:4,5;410:18;
gathering (1) 507:16	583:6	546:16;548:10;	guide (3)	508:1
	goal (4)	582:5;623:9;625:15	350:20;465:3; 509:4	happened (4)
gauge (1)	469:10;502:22;	granted (1)		344:9;411:22;
375:4	545:15;553:19	352:14	guys (1)	471:2;630:14
gave (6)	goals (2)	grassroots (2)	482:10	happening (1)
375:11;438:20; 629:5;630:6,9;631:5	385:13,17	473:5,8	Н	616:16
general (26)	goes (18) 351:22;356:20;	grave (1) 366:2	11	happens (4) 353:3;439:6;
352:11;353:21;	357:8;385:20;400:7;	great (15)	Haag (93)	470:13;620:17
356:19;361:15;	417:5;438:3;439:6;	400:13;405:13;	333:12,18;334:7,	happy (2)
366:14;372:21;	470:9;483:6;484:8;	413:11;417:8;	10,11;337:21;338:2,	411:14;518:21
383:20;384:12;	525:21;526:10;	451:18;469:7;	11,19;339:10,22;	hard (14)
385:15;399:4;408:6;	541:2;577:12;	473:18;477:8;	340:14,19;341:11,	349:22;375:4;
419:19;456:12;	582:22;611:11;629:3	569:13;596:16;	15,21;342:12,18,21;	385:9;426:5;443:6;
464:22;473:3;	Good (58)	621:13,18,19;630:8;	343:3,6,12,22;	446:19;539:17;
500:15;514:10;	333:5;334:10,21;	640:17	344:14,18,22;345:7,	548:7;563:6;570:16,
516:22;518:2;	342:19;354:16;	greater (4)	12;346:3,7,14,22;	18;582:21;614:16;
532:19;534:7;	358:4,5;359:16;	346:10;368:1;	347:21;348:9,16,19;	633:4
557:13;613:16,22;	378:3;387:7;390:15,	369:10;414:11	349:10,16,19;350:3;	harder (3)
619:20;635:7	16;417:17;438:2;	greatest (5)	368:15;398:9,10;	417:4;443:8;
generally (2)	443:4;449:22;452:9;	547:17;548:22;	404:12,20;405:5,12,	597:11
391:16;514:8	479:13,20;481:5,20;	567:1,2,3	19;406:1,3,7,12,15;	harmful (2)
generation (1)	482:12;534:2,12;	green (1)	407:3,8,12,14;	598:9,10
480:19	540:14;543:9,10;	410:17	408:11,22;410:9,12,	HART (9)
generic (4)	547:2,2,4,6;551:5;	Ground (18)	20;412:1;414:5;	443:19;444:22;
347:20,21;385:11;	552:22;555:14;	381:19;411:13;	417:7;427:14;428:2,	445:4,9;469:13;
388:2	559:1;561:15;562:4,	440:7;472:4;473:7;	7,10;430:14;431:7,	588:7;589:9,12;
GEO112E (1)	7,17;563:1;570:17;	475:6;537:1;540:12;	18;432:2,15,19;	590:18
500:15	573:4;577:1,7,11,14,	549:12,15;557:3;	433:4;437:7;445:16,	Hart's (1)
geology (1)	22;586:21;600:20;	558:16,21;559:1;	19;446:2,11,14,18;	612:7
336:17	601:18;602:14;	576:12,13;616:16;	447:8,15;448:3,10,	Hawaii (2)
gets (3)	606:16;610:13;	620:10	14,16;468:3,7,9;	583:14,14
364:16;422:2;	618:7;621:3;631:7;	group (16)	469:5	haystack (1)
586:18	639:6;640:18	336:1,6;372:1,9;	half (6)	630:18
200.10		,0,2,1,2,1,9,		

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (15) gasoline - haystack

PG&E Gas Transmissio	n Pipeline	-	DA
hazard (1)	417:14;4		
363:1	470:2;54		
Hazardous (1)	547:13;5		
481:7 hazards (6)	580:19;5 604:2;62		
362:18;379:14,15;	helped (1)	.0.	1,0.
420:7;426:16;466:15	620:16		
HC (1)	helpful (2)		
527:21	551:22;5):19
HCA (11) 529:13;530:3;	helping (3) 462:20;5		.2
531:8;579:4;580:16,	helps (4)	,55	,
20;581:5,7;593:10;	354:20;5	540):13
628:17;629:12	589:10;6		
HCAs (1)	here's (3)		
593:13	429:18;4	151	:4;
Head (4) 438:5;446:17;	636:19 HERSMA	N	(97
606:14;626:16	333:5;33		
headed (1)	376:15;3		
637:9	403:21;4		
headline (1)	406:22;4		
387:1 hoon (13)	412:13;4 422:12;4		
hear (13) 343:8;386:5;	422.12,2		
431:5;480:13;	435:15,1		
501:14,19;503:20;	443:18;4	145	:11
515:3;525:10;540:6;	22;446:9),12	2,17
574:12;597:20;618:7	447:5,13		
heard (15) 358:6;368:15;	12,15;44 450:11;4		
390:17;409:18;	455:16;4		
426:6;432:4;444:1;	462:22;4		
452:4;501:21;523:9;	466:21;4		
577:13;582:10;	468:5;46		
586:6,20;593:21 hearing (32)	471:20;4 473:18;4		
333:6,11;334:6,20;	478:3;48		
335:5,13;336:2,10,	501:18;5		
21;337:14;387:18;	560:11,1		
393:9;417:11;418:1,	10;571:9		
3;437:8;442:3;478:8, 14;479:5,19;480:10;	576:7;57 581:12;5	'8: 589	11; 2.6.4
481:3,19;482:11,19;	592:7,18		
483:3,8;585:9;	22;594:1		
635:10;641:5;644:6	597:12;5	599):7;0
hearings (1)	18;609:6		
482:10 heart (3)	613:3;61 622:5,8;		
387:17;388:16;	10;625:5		
467:5	628:9;63		
heat (3)	640:15;6	541	:7;0
444:2;447:1;	hesitancy	(1)	
448:21 heightened (1)	357:15 Hi (1)		
398:12	335:7		
held (4)	high (17)		
361:8,10;405:18;	368:12;4		
531:3 Helle (2)	484:17;5		
Hello (2) 336:11;402:8	527:21;5 545:16,2		
help (14)	571:5;57		
400:15;413:5;	580:15;5		

6;468:2;	592:14;595:15;
3;	605:11
16;	high-consequence (1)
20;	580:10
;628:13	higher (7)
	414:6;502:14;
	547:5;554:4,14;
	592:9,20
10	
19	highest (6)
	526:7,18;529:20;
3,19	530:1;553:2;580:22
-,	high-tech (1)
12	
13;	419:4
13	hindsight (1)
	630:13
4:	hire (2)
-,	207.1.540.11
	387:1;548:11
97)	hired (2)
8;	487:11;537:10
5;	hiring (1)
6;	487:20
16;	history (5)
5;	414:2;480:7;
22;	549:4;591:12;630:11
2.	hit (2)
2; 37:5;	452:9;582:21
J7.J, 11.10	
11,18,	hits (2)
,17;	460:7;543:14
;448:5,	hoc (3)
,21;	356:3;392:11;
17;	393:2
19;	hold (3)
4;	377:2;410:3;547:6
3,15;	holding (4)
2;470:4;	376:16;531:5;
11;	546:9;585:8
4,11;	home (9)
,10;	421:16;422:1;
13;	475:19,20;500:18;
	475.15,20,500.10, 501-5-554-10-20-
66:6,8,	501:5;554:19,22;
3:21;	555:4
1;	Homeland (2)
6;591:1;	419:22;460:14
3:4,18,	homeowner (1)
96:13;	374:20
7;600:3,	homes (3)
0:16,20;	398:17;435:11;
;621:19;	595:20
:1;624:1,	honest (2)
6:1,17;	412:3;432:7
;639:17;	honestly (1)
7;643:15	380:19
7,045.15	
	hope (5)
	468:13;579:17;
	581:22;612:20;628:8
	hopefully (5)
	400:15;414:10,14;
15;	546:14;591:6
	r
18;	Horizon (1)
3,12;	632:19
49:18;	hospitals (1)
7;	595:21
8;	hour (7)
,	

409:19,20;410:2,5; 448:8,11,22 house (2) 347:12:380:14 huge (3) 384:20;402:16; 555:8 hundred (1) 364:22 hundreds (2) 375:13:632:3 hurdles (1) 604:9 hydrants (4) 406:10;427:17; 428:3.6 hydro (8) 496:14:520:20: 521:19:525:1: 532:16;534:8; 594:11:599:21 Hydrostatic (9) 532:5;594:13.19: 596:16,20:597:7,14; 598:1:599:13 hydrostatically (3) 533:12,18;603:20 hypersensitive (1) 474:21 I **IBEW (2)** 404:9:566:8 idea (6) 340:2;386:7; 389:2;426:7;606:16; 607:15 ideally (1) 607:18 ideas (5) 413:12;414:4,19; 566:22;588:18 identification (4) 529:12;530:3; 531:7;593:10 identified (13) 344:17:385:18; 492:9;528:3;530:17; 573:10;579:4; 580:16.21:581:8: 628:17;629:15;642:1 identify (14) 349:22;418:2; 466:6:484:19: 537:22:561:11.22: 581:4;586:9;592:22; 629:8:630:15: 633:12.13 Identifying (4) 484:16;553:2,3; 557:17 ignited (1)

383:8 ignoring (2) 418:4;523:10 ILI (3) 487:13:498:18: 537:12 IM (5) 484:1:498:22; 499:7,9,9 imagination (2) 595:11:636:13 imagine (1) 342:5 imagined (1) 427:20 immediate (6) 408:14:430:14; 490:17,21;494:17,19 immediately (2) 429:17,21 **IMP** (4) 507:10,17,20,20 impact (6) 405:1:410:5; 411:11:412:8:564:9: 587:10 impacted (1) 400:12 impacting (1) 447:21 impacts (1) 384:9 impediments (2) 611:8,10 imperative (1) 398:11 implement (8) 393:20;444:19; 461:13;480:2; 508:20;546:3;555:9; 567:8 implementation (9) 371:21;373:19; 391:20;509:11; 533:17:536:4:568:1. 20;569:8 implemented (3) 537:20;550:19; 551:4 implementing (4) 371:18:462:17; 509:3;621:11 importance (1) 426:18 important (14) 346:1:355:13; 379:21;383:19; 389:20;452:21; 454:9:549:11:593:7: 602:2;605:8;632:12; 638:15.16 importantly (1) 419:8

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (16) hazard - importantly

TOQL Gas Transmissio	Julipenne - DATZ	1	1	Warch 2, 2011
impose (1)	inconsistencies (1)	413:15;417:9;	632:15;640:18	7;542:21:543:9;
617:20	503:17	425:10;433:17;	informative (2)	544:19:552:1:553:4;
impression (1)	incorporate (2)	444:15;454:3;459:2;	429:4;453:3	568:10;590:14;
592:6	489:7;622:6	546:22;547:3;549:3;	informed (4)	598:14;603:7;616:7;
improve (11)	incorporated (4)	569:6;589:13;618:8;	378:18;382:10;	629:19;639:22
382:15;401:6;	341:7;421:14;	634:14	389:6;440:20	
				inspections (30)
426:12;454:13;	444:17;614:1	industry's (1)	informing (2)	393:18;395:6;
462:6;510:20;	incorporates (1)	384:21	362:14;453:17	396:5;461:11;462:9;
547:12;553:8,13;	566:22	industry-wide (1)	informs (1)	501:8;502:18;504:2,
583:20;637:19	increase (10)	578:8	400:17	4;505:4;510:15;
improved (1)	386:9;418:15;	ineffective (1)	infrastructure (12)	541:20;543:11;
565:16	503:3;514:4;517:16,	586:9	419:4,7;420:5;	551:11;554:21;
improvement (12)	19,22;531:2;551:8;	inferring (1)	574:22;575:8,8;	561:10;566:13;
366:20;382:13;	592:15	457:11	603:11;604:3;610:5;	568:3,5;583:17,22;
399:16;400:22;	increased (4)	inflation (1)	612:18;613:1;633:7	584:11;615:16,20;
401:13;472:8;	354:1,3,9;550:9	584:4	INGAA (3)	619:21;623:11;
504:12;514:5;	increasing (1)	influence (2)	335:20;373:8,9	627:21,22;631:17;
575:16,20;619:2,5	503:4	480:2;508:20	INGAA-sponsored (1)	643:3
improvements (2)	incredible (1)	influencing (1)	363:18	inspective (3)
471:22;504:16	552:7	509:2	inherent (2)	555:16,22;620:2
improvement-type (1)	incrementally (1)	inform (1)	513:20,22	inspector (10)
462:4	528:7	362:17	initial (8)	392:22;481:16;
improving (2)	incumbent (1)	informal (1)	339:22;372:2;	482:5;541:5,12,13;
517:17;637:19	630:17	425:19	408:22;409:4;412:4;	614:22;616:9;635:7;
incentive (2)	indeed (2)	information (128)	448:6;471:15;538:21	639:21
399:8:635:2	470:20;530:16	338:16:340:17;		inspectors (16)
incentives (4)	independent (1)	342:17;343:20,20;	initially (1) 551:8	
389:17;390:3;	614:11	344:2,13;345:4;	initiatives (4)	396:2,3,13,17; 498:14;511:20;
416:22;637:6	in-depth (2)	352:8;353:5,8;354:8,	337:13;349:9;	512:16;546:8;
incentivize (1)	496:6;632:5	12;355:12;358:22;	541:8;612:11	549:11;568:11;
633:16	Indiana (1)	359:2,19,21;360:1,3,	injured (1)	583:3;615:3;624:17,
incident (22)	337:5	6;362:14,22;363:1,4,	388:13	19;639:20;640:13
338:7;339:16;	indicate (4)	8;366:14,15;367:10;	inline (3)	inspects (1)
	393:22;592:8;			590:12
344:6,12;353:3; 354:7;388:12,14;	603:2:641:22	369:11,22;370:11, 16;375:1;378:7,8,19;	498:18;529:15; 537:12	
, , , ,	,	382:1;384:13;	innovative (1)	install (1) 606:17
400:11;403:15,15, 17;407:5,6;409:1,6;	indicated (3)		611:14	
	430:19;508:11; 605:10	388:22;390:6;		installations (1) 605:13
426:19;455:7; 470:22;524:20;		397:20;401:9;403:8,	input (2)	
	Indicating (1)	12;414:20;419:11,	367:8;372:11	installed (3)
538:18;623:12	438:1	18;422:8,9;423:9,12,	inquiries (1) 457:6	522:12;604:21;
incidents (6)	indication (3)	13;425:5,13,17;		606:22
338:18;352:10;	375:4;493:22;	426:14;430:6;	Inquiry (3) 404:2;601:2;	instance (2)
419:1;551:2,6;	563:12	431:15;432:3,11,12,	, , ,	517:15;629:8
601:21	indications (1)	18;433:18;434:2,19;	643:19	instances (1)
include (8)	493:19	435:2;439:21;440:1,	inside (9)	420:12
339:8;359:19;	indicative (1)	15;443:16;451:11,	387:11;436:3;	instead (3)
361:21;405:3;	584:10	17;453:22;454:8,11;	447:6;448:7;466:15;	412:6;495:5;555:1
535:11,13;542:1;	individual (9)	455:9,21;456:5,12;	635:13,17,18;639:13	Institute (2)
569:6	356:18;422:3;	457:2,7;458:12,13;	insight (2)	335:9;509:19
included (9)	425:9,20;453:11;	460:9;464:19;465:2,	639:12,12	instituted (2)
359:21;367:12;	457:9;463:14;	9,13,14;466:17;	inspect (2)	472:1;500:16
404:16;495:12;	490:10;582:7	467:21;468:1;	501:5;551:16	instituting (2)
544:20;575:16,21;	individuals (7)	472:18;477:4;496:8,	inspected (4)	616:21;617:16
576:1;629:17	359:4;396:10;	9;506:16;521:12;	531:22;567:9;	instructed (1)
includes (7)	463:16;485:15,17;	522:20;523:14;	629:18;643:1	412:2
350:19;377:17;	486:5;490:10	531:13,16,18;	inspecting (1)	instructors (1)
391:18;420:11;	industry (29)	541:16;551:22;	642:14	627:5
421:22;480:18;	343:13;352:3;	553:13,14;555:14;	inspection (26)	instructor's (1)
481:10	367:8;371:6,16;	556:8,20;557:20;	391:18;392:5,20;	350:20
including (7)	372:3;378:13;	559:4;561:18;562:4,	424:4,6;460:21;	integrated (1)
362:11;363:4;	380:21,22;381:12;	5,12;577:7;603:22;	461:9;498:18;	379:22
413:17;511:9;512:6,	383:18;384:19;	604:1;622:12,16;	505:18;529:15;	integration (2)
8;538:3	385:3,3;389:22;	629:1,2,4;630:21;	532:6;537:12;541:4,	484:20;562:6
	1			1

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (17) impose - integration

PG&E Gas Transmissio	on Pipeline - DAY 2	1		March 2, 2011
integrity (60)	Internet (2)	368:14;383:11;	issued (3)	JOHNSON (10)
376:5;482:6;	455:5,9	469:19;470:2;	458:15;602:1;	411:2;418:6;
483:17;486:15,18;	interpretation (4)	477:11;539:6;541:5,	604:17	419:16;420:19;
487:8;490:4;495:12;	527:9,12,14,18	11;601:20,20;	issues (44)	419:10,420:19, 422:10;463:2,11,18;
498:16;499:3;	interruption (1)	616:22;617:16	335:10,12;376:7;	464:3;566:7
500:14,21;503:7,11,	377:6	investigations (5)	397:8;420:5,10;	joint (5)
18;504:8;505:4,11,	Interstate (9)	440:14;543:12;	459:20;474:21;	350:12;490:7;
14;508:13;509:7;	335:16,18;373:10;	583:7;615:17,19	475:9;487:17;489:6;	569:4;590:14;623:17
517:17;523:5;525:5;	410:13;435:19;	investigative (3)	490:3,5,15;493:4;	iointers (4)
528:3,20;529:1;	544:13,15:596:17;	555:22;568:6;	504:7,14;506:17;	530:6,10,10,12
534:17;539:1;552:9;	621:7	584:19	509:10,14;514:14;	Jones (3)
555:9,10;561:4,21;	interval (1)	investigator (1)	523:20;524:18;	449:5;450:11;
563:8,12,18,21;	533:16	481:17	528:3;541:9;550:17;	451:3
564:13,20;565:1,6;	intervals (1)	investigators (2)	551:7;553:12;562:9,	judge (4)
566:11;567:15,18;	607:20	469:22;624:11	16;563:13,21;565:7;	509:1;515:21;
568:2,3;569:3,9;	intervene (2)	invitation (2)	568:7;569:8;583:7;	619:8;636:2
571:22;576:9,22;	515:22;585:2	405:22;406:4	593:11;596:12;	judges (1)
577:6,8;599:22;	intervening (1)	invite (1)	597:6;605:16;610:6;	512:3
619:18;627:21;	539:5	425:22	613:1;614:6;636:17	judgment (2)
629:15;631:21;	intervenors (3)	invited (1)	issuing (2)	587:8;627:4
641:17	515:20;516:1;	405:17	423:16;604:18	JULIE (28)
intended (2)	517:1	invokes (1)	item (1)	478:18;479:10;
418:15:441:17	intervention (1)	591:17	605:11	480:11,11,14;
intense (1)	619:13	involve (1)	items (4)	501:13,16;502:3;
552:12	interview (4)	363:22	574:9,10,16;	503:10;504:20;
intensity (1)	485:15;486:5;	involved (17)	585:10	514:19,22;515:2,17;
565:12	536:7,19	350:9;351:11;		517:8,11,20;518:21;
intentionally (1)	interviewing (1)	366:8;367:2;371:21;	J	523:1;538:17;
635:5	485:13	372:14;382:10;		539:14,16;573:19;
inter (1)	interviews (3)	390:20;391:2;416:2;	JACKS (20)	574:3,14;575:11;
642:7	485:12;536:11;	429:7;459:13;500:9;	422:14,18;423:2,5,	599:15;600:8
interact (3)	556:19	508:12;510:3;512:1;	19;426:8;427:12;	July (1)
430:10,11;508:21	into (40)	518:17	428:4,9;429:1;464:5;	524:4
interacting (1)	353:10;364:17;	involvement (2)	466:20;560:19;	jump (2)
642:7	371:13;374:15;	350:7;512:1	563:9;564:3,16;	414:8;574:9
interagency (1)	383:6;387:3;401:19;	involves (4)	565:9;566:4;609:8;	juncture (1)
612:9	414:21;417:22;	350:18;396:2;	610:15	344:5
interest (5)	419:15;421:21;	539:22;592:17	JAMES (19)	June (1)
336:6;383:3;	433:18;439:15;	involving (1)	333:19;334:21;	450:19
385:2;436:15;561:7	461:5;468:13;489:7;	537:5	350:9;351:15,19,22;	junk (1)
interested (8)	492:14;496:6,6,15;	iPhone (1)	352:11;353:7,17;	476:22
347:18;349:12;	505:19,20;506:4;	466:10	354:2,13;355:20;	jurisdiction (5)
368:10;393:4,11;	518:1;540:21;	iron (3)	356:5,17;357:2,21;	343:1;541:18;
477:7;611:2,7	555:19,21;562:7,12;	540:19;611:22;	399:2;414:22;426:18	542:17;590:11;623:5
interests (1)	563:8;573:13;	612:4	jargon (4)	jurisdictional (1)
355:18	587:16;596:5;607:5,	isolate (1)	374:16;380:20,22;	543:15
interfacing (1)	11;609:18;618:11;	565:13	382:4	jurisdictions (5)
589:7	629:13;639:12,13	isolated (1)	Jeff (10)	361:19,22;441:4,7;
interfere (1)	Intra (1)	623:12	417:16;566:11;	582:3
621:7	544:17	issue (30)	567:13;569:13;	Justice (2)
internal (8) 532:6;538:10;	intrastate (9)	392:12;400:10; 409:11:420:9;	571:1,7;589:13;	383:11;635:7
576:20;577:21;	435:19,21;436:2; 520:18;544:14,20;	409.11,420.9, 471:11;477:8;	610:18,22;612:5 jet (1)	justification (4) 558:5;559:2,18;
596:6;598:13;	623:2,8;625:2	490:15;492:4;	431:4	627:14
604:22;607:8	intrinsically (1)	521:10;523:13,21;	Jim (2)	justify (1)
internalizing (1)	581:17	524:6,10;530:17;	JIM (2) 333:13;334:21	Justity (1) 559:21
477:6	introduction (1)	546:5;549:3;561:19;	job (14)	557.21
internally (1)	344:1	573:10;593:5;	444:5;469:14;	K
532:1	investigated (1)	594:13;602:3;	470:3;480:2;508:19;	11
international (1)	628:11	606:14;608:1;	509:3;550:18;	Kansas (1)
612:20	investigating (1)	617:22;618:1;	562:17;586:21;	461:3
internationally (1)	508:7	620:19;631:19;	587:7;602:14;603:3;	keep (10)
612:16	investigation (12)	634:6,7,8	631:18;633:5	412:20;477:16;
	(1 _)	,,,,,		

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (18) integrity - keep

PG&E Gas Transmissio	n Pipeline - DAY 2			March 2, 2011
515:9;519:16;	knows (1)	leads (1)	624:7;640:7	530:11;531:12;
546:17;558:18;	635:20	604:7		532:2,19;534:1;
	633.20		lessons (3)	
572:15;596:5;599:3;	T	leak (4)	367:15;393:3;	552:2;553:11;
618:9	L	338:20;340:8;	473:2	557:11;558:19;
keeping (1)		466:17;630:11	letting (3)	559:10,16;561:12;
493:10	L&G (1)	learn (12)	375:20;419:14;	563:15;564:14,21;
keeps (1)	590:12	392:4;401:3;	454:7	566:17;571:3;
391:6	lack (4)	458:21;461:20,22;	level (42)	572:22;573:15;
key (8)	434:18;521:12,13;	462:9;523:22;	353:20,22;354:3;	574:6,16;577:3,11;
352:21;381:20;	583:17	547:11;551:18;	364:11;366:9;368:1;	578:20;579:8,17;
401:15,19;416:19;	lanes (1)	562:12;590:9,14	378:18;379:6;398:7;	580:13;585:21;
418:4;435:13;465:17	520:19	learned (7)	419:6;420:10;422:2;	587:6;588:4;589:19;
keys (1)	language (4)	367:16,21;389:19;	423:9;427:8;459:11;	590:20;593:19;
401:9	366:10;453:4,18;	393:3;419:2;473:2;	460:15;463:7;	596:15;597:16;
kick (2)	463:15	632:7	464:15;472:6;473:8;	601:17;602:15;
510:8;615:21	laptop (2)	learning (5)	474:6,10;500:8;	603:4,15,17;604:14;
kids (1)	359:4;513:13	395:1;415:12;	505:18;506:3;	607:6;608:10;610:2;
383:9	large (1)	452:19;461:7;562:11	521:22;528:16;	612:14;621:9;622:4,
killed (1)	634:9	learnings (1)	554:4,15;579:4,12;	7,14;624:12;626:16,
383:8	largely (2)	399:19	581:10;592:12;	22;631:7;634:1
kind (43)	368:16;473:5	least (7)	606:15;611:11,16;	line (60)
339:16;340:3;	larger (2)	401:14;498:3;	613:8,9,13,18;614:3;	338:6,10;341:2,16,
344:1;345:15,18;	471:2;605:6	501:6;515:6;520:6;	621:6	16;342:14,15;
360:6;364:16,16;	last (22)	578:18;599:16	levels (3)	343:15,15;344:6,21;
366:19;368:6;	345:21;349:10,13;	leaving (1)	510:15;548:5,13	345:16;346:8,8;
383:12;384:6,22;	384:22;390:19;	600:6	leverage (1)	347:3;348:10;
385:11;395:2;402:5,	406:9;451:12;	led (3)	552:17	349:17;360:16;
17;417:20;420:6;	506:22;508:3;511:2;	367:4;604:22;	liaison (10)	361:5;368:16;370:6;
442:16;445:6;	519:6;526:6;542:12;	612:10	359:5;361:7;	394:11;404:14,14,
451:19;454:2,14,15;	548:6;552:7;570:15;	LEE (88)	369:20;406:1;	14,15,17;405:4;
457:11;466:10;	571:11;583:19;	478:16;479:9,12,	418:10,15;458:1,6,	408:20;420:8;
470:9,12,22;499:16;	585:8;607:2;619:6;	13,14;483:14,19;	16;459:3	430:17;456:6;
509:14;521:5;	620:14	484:15;485:14,18;	liaisons (1)	457:10;461:13;
545:12;557:2,14;	lastly (3)	486:1,4,10,12,21;	469:7	475:17,18,22;491:7;
585:13;593:9;	460:20;569:14;	487:10,22;488:4,9,	Lidiak (23)	523:7;525:17;526:3,
611:14;619:12;	612:6	16,22;489:3,5,13,16,	333:13,20;335:6,7,	7;529:20;530:8;
626:2,9;628:19	late (2)	20;490:5,9,14;491:2,	7;370:22;371:3,11;	532:18;559:13;
kinds (9)	381:16;583:15	6,8,13,21;492:4,11,	372:1,16,21;375:6,	560:7;562:10;
359:13;378:16;	later (6)	17,21;493:3,15;	10,22;377:9;378:3;	580:22;592:8;
382:2;387:6;418:21;	347:6;429:11;	494:2,7,11,14,18;	379:9;399:13,14;	595:18;597:1,15;
440:10;453:21;	450:22;504:13;	495:2,9,16,20;496:2,	423:20;424:18;	598:8;610:9;611:1;
584:21;588:15	531:19;603:21	18;497:1,4,9,12,18,	425:2;444:9	642:1,11;643:3,7
Kingson (1)	latest (1)	22;498:4,8,13;499:5,	light (3)	linear (1)
629:14	382:9	9,12,19;501:11;	343:13;412:19;	636:14
KIRK (1)	latter (2)	525:3,12,14,21;	549:22	lines (25)
566:7	396:19,20	526:16,21;527:3;	likely (3)	338:21;340:4;
knew (9)	LAUGHTER (9)	534:13;535:7;536:7,	384:16;557:20;	341:20;344:16,19;
408:5;429:17,19,	434:22;442:6;	14,22;537:10;538:2,	604:18	381:2;430:18;469:2;
20,22,22;440:10;	467:12,18;468:8;	9;556:7,15,16;557:4;	limit (3)	498:1;502:20;
475:5;642:1	478:13;522:7;574:2,	560:8;608:16,19,22	379:2,5;580:1	521:18;522:12;
knocking (1)	15	left (2)	limitations (1)	524:16;532:11;
364:1	law (5)	556:2;598:8	447:3	533:7,14,18;534:8;
knowing (1)	357:10;408:1;	legislation (4)	limited (4)	559:16;594:16;
439:16	509:1;512:3;515:21	428:18;543:15,21;	537:3;611:20;	596:17;598:16,17;
knowledge (15)	laws (1)	582:18	624:2;631:20	600:10;610:11
341:18,22;404:22;	637:4	legislature (1)	limits (1)	liquid (6)
405:6;411:12;	layer (1)	434:12	634:20	350:18;352:18;
438:15;439:2,13,22;	626:15	length (1)	LINDA (67)	430:1,18;506:22;
442:11,22;443:1;	lead-in (3)	565:12	478:19;479:10;	604:17
467:20;530:16;590:2	387:10,19;388:6	lengthy (1)	481:5,6;503:20;	list (9)
known (7)	leading (3)	521:9	504:1,6;505:17;	392:7;394:1;
408:12,14,18,19;	414:14;482:5;	less (4)	522:17;523:12;	405:22;492:12;
433:21;556:9;577:16	623:19	425:20;622:2;	524:3,7;528:13;	568:12;573:13;
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (19) keeping - list

585:7;586:17;642:17	592:13	416:22;418:22;		471:13;561:17;
listed (1)	log (2)	427:22;433:15;	Μ	575:15;633:8;639:5
491:17	421:21;422:22	454:12;460:9;	174	manage (4)
listen (2)	long (21)	466:18;471:10,19;	Madam (14)	359:15;365:21;
375:14;384:16	339:12;406:13;	475:11;492:15;	333:11;337:15;	421:21:449:10
lists (1)	415:20;445:22;	493:17;496:6;		managed (1)
393:5	447:13;448:7,15;	502:16;533:13;	403:19;404:10;	337:5
literally (2)	458:5;468:12;	548:18;555:17,19;	412:2;445:16;	management (70)
352:19;375:13	483:21;488:13;	559:6;562:16;	452:17;455:14;	369:16:376:5;
little (49)	531:2;548:16;	563:12;568:7,13,14,	478:8;482:20;	482:6;483:15,17;
335:9;346:17;	558:18;559:11,20;	18,19;573:6;576:20;	483:12;560:19;	485:6;486:15,19;
347:16;362:1;368:7;	569:18;587:13;	588:16;593:14;	609:3;641:5	487:9,12;488:20;
			magnitude (1)	
386:14;411:3,18,21;	594:17;596:17;621:7	600:14;602:17;	636:10	489:2;490:4;491:10;
421:2,9;425:15;	longer (1)	606:14;609:17;	mail (10)	492:9;495:12;
426:11;435:6;	409:20	618:22;619:11;	359:22;364:11,14;	498:14,16;499:3;
441:10;446:19;	long-term (1)	623:17;625:15;	366:18;377:18;	500:14,21;503:19;
447:20;449:16;	610:6	629:14;635:16,17,	378:6;382:6;432:17;	504:8;505:4,12,14;
452:22;454:15;	look (104)	18;639:14;641:18	442:5;476:22	507:3;508:13;509:7;
457:22;464:18;	340:8;341:5;	looks (6)	mailed (3)	523:5,19;525:5;
473:11;474:20;	342:6;387:2;389:16;	378:15;389:7;	401:17;450:20;	528:20;529:1;530:6;
486:17;490:1;493:1;	392:9;393:18,19;	419:14;510:14;	451:6	534:17;539:1;
495:8;498:10;	394:5,18;399:10;	561:13;565:2	mailer (2)	546:11;552:8,9;
501:21;502:2;520:6,	420:6;425:9;436:14;	lose (1)	386:15;387:15	555:10,10;561:5,21;
14;566:14;567:14;	440:8;454:1;458:21;	542:19	mailer-based (1)	563:8,13,19;564:13,
569:20;591:2;593:6;	461:6;467:8;468:14;	loss (3)	364:8	20,22;565:1,6;
595:1;599:2;617:1;	474:15,16,17,18;	490:16,20;491:4	mailers (2)	566:11;567:1,15;
620:12;624:13,16,	476:2,4,4;477:10;	losses (1)	367:1;385:6	568:2,3;569:3;572:1;
17;628:19;632:20;	486:17,20;489:16;	398:16	mail-in (1)	576:9;577:1,6,9;
641:18,21	493:16;496:1,16,21;	lost (3)	602:19	600:1;604:22;
live (5)	497:15;498:2;	383:15;543:1;		619:18;627:22;
433:4,5;451:9;	505:19;507:17;	564:15	mailing (11)	629:16;631:22;
476:13;501:20	516:4;521:16,18,21;	lot (37)	355:3;362:6,7;	641:17
Lively (3)	533:1;535:3,7,18,19;	374:12;375:3;	363:10;394:1;	manager (5)
403:14;461:2;	537:11,13;547:14;	384:22;385:11;	432:21;442:18;	336:12;337:2;
585:4			443:14;463:12;	509:9;512:19;589:5
	549:12;551:21,21;	389:4;392:4;396:12;	476:18;477:2	
loaded (1)	554:9,10,11;557:19;	402:6;403:7;411:3;	mailings (8)	managers (1)
505:19	559:13;562:22;	413:19;421:5;	362:10;365:11;	536:5
local (19)	563:10;565:8;	442:13;457:6;465:5,	376:8;385:1;394:1;	mandates (1)
359:7;370:15;	567:18;571:17;	14,16;475:14;495:3;	401:20;442:2;451:14	545:18
389:7,11;393:15;	572:6,8,12,14;	505:5;518:22;520:1;	main (4)	manner (5)
413:16;417:13;	573:11;575:15;	537:1;553:15;567:7;	428:7;449:1,2;	381:9;577:19;
418:16,17,19;	576:15;578:2;	574:19;589:6;	547:9	617:12;627:12;636:3
426:14;427:7;434:1;	580:21;586:22;	594:12;596:4;611:9,	mainly (1)	manually (1)
437:3;441:1;457:2;	587:3,7,14;589:22;	21;612:11,17;613:7;	642:12	447:19
474:6,10;518:6	590:7;601:19;	623:1;630:20;640:18	maintain (4)	manufacturing (1)
localized (1)	603:12;607:18;	louder (1)	459:3;578:22;	527:1
421:18	609:21;612:3;614:7;	431:5	579:20;628:1	many (34)
locate (3)	616:5,5;620:4,5,8;	low (4)	maintained (2)	343:1;351:13,17;
385:19;441:13;	626:9;630:15;631:3,	515:10,11;519:16;	383:13;474:9	361:19;365:1;
524:21	4,18;632:3,8,13,15,	592:10	maintenance (8)	378:13;401:17;
located (7)	21;635:13;636:19;	lower (6)	344:8;359:7;	441:12;460:7,9;
402:9;418:19;	637:16:639:8	410:13;460:15;	474:6;516:15;564:8,	473:13,16;475:8;
422:5;451:7;465:22;	looked (15)	506:13;592:10,22;	18;609:20;616:7	483:6;487:22;505:4,
466:13;476:14	345:1;394:16;	593:2		11;511:12;531:22;
location (13)	425:8;488:20;	lowest (5)	major (3)	546:7;566:12;
341:19,22;360:16;	489:11;498:1;533:8;	545:2;560:5,6;	368:22;386:1;	584:16,16;586:3,10;
361:5;362:8;370:12;	576:17;590:3,4;	592:4,5	466:12	611:17;614:16;
420:22;426:15;	608:19;628:15;	lowest-grade (1)	majority (1)	619:21,21;621:14;
	630:9;632:19;634:19	560:4	622:20	
455:3;465:2,13;			makes (3)	622:8;624:10;631:1;
540:12;591:17	Looking (52)	lunch (2)	529:13;561:18;	638:20 MAOD (22)
locations (1)	376:5,12;378:17;	477:20,22	606:3	MAOP (23)
433:21	386:15;389:13;		making (7)	520:15;521:18,22;
locked (1)	394:21,21;399:10;		351:7;381:18;	522:15;525:6,7,17;
	1	1	I	l

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (20) listed - MAOP

PG&E Gas Transmissio	n Pipeline - DAY 2			March 2, 2011
526:2,14;529:19;	359:18;363:11;	mean (19)	353:5;369:9;	421:4,9;426:9;431:7;
531:1;533:11;	378:12;420:18;	341:4:408:9;	393:2;418:11,15;	452:22;499:7;505:2;
570:10;578:22;	453:2;473:6;481:8;	410:19;446:16;	438:19;545:17,18;	523:18;524:11;
579:1,20,21;580:15,	581:6;591:8	453:11;459:13;	570:22;582:16;588:2	530:6;532:12;
17;581:10;591:3;	materials-based (1)	476:12;492:15;	meetings (9)	534:18;537:4;
593:13;600:11	358:19	514:1;550:1;557:21;	359:6,7;361:8;	557:21;576:11;
map (17)	mathematical (2)	559:13;566:15;	369:20;378:9;	596:21;601:5,8;
361:4;409:13;	364:16;449:17	571:15:577:6:600:8;	396:11;406:1;421:5;	602:12;632:17;642:5
410:8,11,20;421:15,	matrix (2)	609:17;636:12;643:2	570:21	mentioning (1)
18,22;422:19;423:1,	535:8,11	means (12)	meets (2)	454:14
6;455:2,4;464:11;	matter (9)	378:8;391:22;	368:6;526:12	Merck (1)
465:22;467:2;476:4	341:5;345:7;	399:5;413:22;	member (80)	369:15
Mapping (14)	399:15;523:11;	439:17;534:5;	335:11;336:7;	merge (1)
345:5;346:13;	528:8;561:2;589:20;	545:16;557:18;	398:4;421:17;429:2,	468:15
360:4,8,22;361:3;	605:15;607:21	585:15;588:13;	3;431:2,13,19;432:8,	mergers (1)
381:18;391:11;	matters (2)	637:19,20	16,20;433:6;434:4;	475:14
421:10;455:12;	390:20;494:22	meant (3)	435:1,12,16,17,22;	message (22)
459:9;464:8;467:1;	max (1)	340:1;378:14;	436:6,10,17;437:4,5,	375:16;380:11;
474:12	579:15	413:22	6;438:2,7,11;440:17;	382:8;384:4,21;
maps (7)	maximum (10)	meantime (1)	441:21;442:7;	385:2,6;386:13;
345:13;348:21;	495:14;520:19;	406:17	464:17;466:21,22;	387:20;388:6,10,20,
360:1,16;370:15;	526:1;528:15,18;	measurable (2)	467:15,16,19;	21;389:16;390:2;
432:3;459:7	544:3;592:5,12,15;	401:18;415:10	468:22;469:11;	394:9,9;399:5,6;
MARCH (2)	595:6	measure (15)	476:8;560:22;564:4;	418:1;459:1;473:9
333:4;644:8	may (55)	351:9;374:2;	576:7,8;577:4;578:7,	messages (29)
markers (2)	339:17;355:1;	377:22;415:12,13;	11,12;579:6,13;	355:2;374:14,18,
363:3;475:13	359:10;362:4;369:4;	441:11,11,13,14,16;	580:6;581:12,13;	21;375:12;380:10;
market (1)	374:19;380:5,8,9,12;	442:16;461:18;	582:9;583:9;585:1,4;	383:20;384:1,15;
349:19	397:10;419:4;422:3;	581:17;587:13,16	586:12;587:19;	385:9,10,18;386:5,
marketing (1)	436:15;452:3;	measured (1)	588:5;601:7;612:8;	14,17;387:8,12,17,
389:21	453:10,22;454:13;	402:2	613:5,6;614:9,18,21;	18;388:1,2,8,16;
markings (2)	457:13;459:20;	measurement (3)	615:2,5,15,19;	389:14;417:19;
349:14;350:2	465:12;486:4;	376:7;394:7,7	616:17;618:2,5,6;	418:4;461:18;
Marshal (3) 335:2;406:7;589:3	495:16;496:1;498:8; 506:4;522:18;530:6;	measurements (5) 394:14;440:6;	619:9,20;620:11,14; 621:18	473:13,16
Marshals (7)	532:8;538:6;553:5;	441:19;461:16,21	members (13)	messaging (2) 402:14;463:15
335:1;350:15;	561:5;562:22;564:8;	measures (19)	351:5;356:3,20;	messenger (2)
355:21;356:1;	568:9;577:20;578:9;	356:22;428:19;	371:5;372:9;373:11;	389:20;390:1
415:16;430:9;431:9	579:3;580:2,3;581:7;	485:3,4;507:12;	379:22;398:20;	met (4)
Marshal's (3)	587:2;597:1,4;598:8,	562:15;568:16;	422:19;425:13,18;	445:5;542:22;
341:6;430:15,21	9,11,18;599:1;	571:13,17,17,19;	442:4;643:19	589:20,22
mass (5)	610:12;611:15,16;	572:3,8,11,14,15;	membership (4)	metallurgist (1)
384:4,19;385:1;	631:22;632:1,22	587:12:592:21:640:1	355:18;371:1;	595:10
389:21;401:20	maybe (35)	measuring (2)	373:7;375:8	metallurgists (1)
master (1)	357:15;366:13;	376:11;442:1	memo (1)	528:9
542:18	381:22;382:6;	mechanisms (2)	608:18	meters (2)
master-metered (2)	388:15;414:18;	443:11;634:4	memory (1)	340:5;542:18
554:21;555:4	416:17;444:8;452:1;	media (1)	591:5	method (2)
master's (1)	454:9,10;457:11;	387:14	Mendez (1)	354:14;630:5
336:19	458:3;462:16;489:5,	medical (1)	422:16	methodologies (3)
match (1)	6;500:3;501:11;	445:20	mention (9)	402:18;568:8,14
578:3	502:1;507:13,18;	medium (1)	344:9;399:21;	methodology (2)
Mateo (2)	512:11;514:16;	369:11	424:18;505:13;	394:6;461:19
347:7;407:16	553:6;559:3,4;	mediums (1)	552:4;604:16;610:7;	methods (11)
material (12)	568:11;570:1;575:6;	354:15	631:11;635:1	340:11,16;354:10;
347:21;351:20;	586:13;587:1;594:1;	meet (18)	mentioned (38)	373:15;378:21;
352:7;368:4;380:18;	599:7;628:9,13	349:11;353:8;	338:13;342:14;	384:12;399:9;532:8;
431:10;432:18,21;	mayor (2)	419:9;430:6;461:10;	343:14;347:11;	590:8;600:17;601:9
463:17;492:13;	389:12;417:12	466:19;470:1;493:7;	356:12;358:15;	metrics (2)
560:3;569:7	MAZZANTI (11)	535:13;570:8,18,20,	362:20;363:11;	445:4;587:12
materials (17)	404:10;405:3,8,16,	22;571:2;584:14;	374:5;375:22;381:5,	METRO (39)
346:18;347:13,16,	21;406:2,5,9,13,20;	587:4,9;622:6	7;382:14;399:17;	478:21;479:11;
19,20;351:14,18,18;	566:9	meeting (11)	400:8;402:7;415:1;	482:11,12,13;506:7,
	•			

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (21) map - METRO

PG&E Gas Transmissio	n Pipeline - DAY
10;507:6;508:5;	608:12
	mind (4)
518:16;519:6,7,10,	
15;520:8;521:3,7;	376:16;380:15;
522:3,19,21;547:16,	547:18;599:3
20,22;550:4,14,15;	minds (1)
551:14;569:14;	401:14
570:3;571:16;	mined (1)
593:22;594:7;	550:21
606:13;611:13,17;	mine's (1)
622:8,11;639:18,19	588:21
Metrolink (1)	minimum (4)
483:3	504:19;542:22;
Metro's (1)	559:7;582:4
606:10	mining (1)
mic (4)	507:16
502:1;514:21;	minor (2)
599:10;634:2	458:20;489:5
microphone (6)	minute (4)
425:15;547:21;	363:10;376:16,2
573:19;588:22;	513:15
601:17;606:2	minutes (15)
microphones (1)	376:19;406:16;
573:22	407:22;409:2;41
mics (1)	415:22;440:18;
501:20	447:16;448:1,1,
middle (4)	449:1;467:4;550
383:7;431:22;	601:5
594:6;625:14	misnomer (1)
might (41)	443:3
352:21;402:10;	misrepresenting (
408:20;409:15;	638:12
410:1;411:12;	miss (1)
412:22;413:2;	632:11
417:10,10,16;419:2;	missed (5)
420:7;427:12,20;	340:14;454:6;
456:21;464:17,21;	630:10,10,16
498:11;502:17;	missing (3)
505:6;521:6;523:6;	349:22;384:4;
550:12;557:19,20;	630:7
559:7;567:18;	mission (4)
572:13;574:7;578:2;	371:1;373:7;
595:14;601:9;604:1,	382:21;506:15
2;605:18;609:13;	Mississippi (2)
612:13;622:12;	429:7,14
630:21;641:19	Missouri (1)
mike (9)	336:18
425:1;431:5;	mistakes (1)
468:6;641:16;	638:5
642:12,16,22;643:4,	mitigate (1)
13	552:17
mileage (2)	mitigative (3)
465:7;625:1	485:3;562:14;
miles (8)	568:16
341:17;343:7;	mobile (5)
373:12;383:8;	500:18;501:5;
531:10,22;533:1;	554:19,22;555:4
603:19	mode (2)
Millbrae (2)	412:6,7
334:13;344:4	model (2)
million (4)	617:19,19
383:5,16;460:18;	models (3)
608:13	443:6,9;449:18
millions (1)	modifications (1)
	(-)

614:1 modifies (1) 5; 514:14 module (2) 367:11:466:6 moment (3) 398:4;464:7;517:4 moments (1) 370:5 money (5) 514:11:515:13; 22; 548:15;552:20; 639:15 monitored (1) 643:6 monitoring (1) 565:17 month (1) 6,20; 435:7 monthly (2) 432:18;571:1 6: months (2) 2;413:1; 392:12;495:5 8; mood (2) ,1,11; 417:20.21 556:2; **MOP** (6) 529:3:579:4: 580:15,22;581:9; 593:13 ng (1) more (101) 346:17:347:16,20: 355:6;366:13; 376:13;380:9; 384:14,16;387:12; 388:11;395:5; 396:19,20;398:2; 401:9;414:20;417:9, 11;427:6;430:11; 440:17,18;441:14; 451:9;455:15; 457:10;458:12; 5 459:19;464:19; 465:12;472:13; 474:21:489:7:493:5: 496:12:500:11.13; 502:12,17;503:7,13; 505:6;506:1,4;507:4, 13;514:7;518:19; 520:9;523:22; 531:15;532:11; 537:2,8:538:14,19; 539:10,12;546:12; 550:11;551:18; 552:20;554:14; 5; 555:21;571:19; 55:4 574:17,21,21; 575:15;586:10; 588:1;590:22;594:2; 595:1:596:9:601:9: 607:4,7:609:4,18: 611:4.7:614:7: :18 618:19:619:16:

16,22;622:16,22,22; 629:13:636:14; 640:7,13,14;641:18, 21 moreso (1) 496:13 morning (14) 333:5:334:10,21; 342:19;358:4,5; 390:15,16;398:6; 408:5;418:8;429:13; 642:5;644:1 most (28) 350:17;378:21; 385:17:386:21; 388:1:408:2:419:8: 420:16:443:11: 475:10.11:533:13: 543:13:545:20: 556:10,13,22;557:3, 15;558:17;560:3; 569:11:588:16; 589:17;591:10,22; 631:17;638:6 mostly (1) 627:5 move (6) 355:3:390:14: 398:15,16;417:15; 435:7 movement (1) 643:8 moving (4) 338:4;382:16: 441:7;639:7 **Mrs** (1) 642:4 much (51) 343:22;354:4; 375:10;385:3; 387:17;400:20; 403:21:408:7; 413:11;414:11,16; 415:21;435:12; 445:10;446:21; 457:20;458:18; 466:1:471:2:473:20; 477:9.18:483:1: 495:2,3;496:12; 498:11;501:3; 510:19;514:7;519:3; 527:7;538:19; 560:10,11;575:2; 578:10;587:21; 596:9;600:19; 605:10,11:608:12: 611:2;614:6;620:10; 625:8;637:4;640:16, 20:643:20 multifaceted (1) 554:1 multimillions (1) 634:12

multiple (9) 354:15:361:21; 385:17;387:14; 399:5,9:438:22; 511:7:577:17 municipal (1) 362:11 municipals (1) 542:18 must (18) 557:15:558:10; 559:21;561:20: 562:4,5,9,9;563:22, 22;564:2;571:20; 572:15:580:21: 581:3;586:1;622:5; 635:11 mutual (1) 436:15 myself(2) 349:11:416:2 N NACA(1) 526:4 naive (1) 578:14 name (12) 334:8,10;475:16; 476:2;479:7,13,20; 480:11,14;481:6,20; 482:12 NAPSR (11) 506:12;507:3,19; 508:3;521:3,9;570:5; 571:2;572:2;589:1; 594:7 NAPSR's (2) 507:2,6 Narva (31) 333:13,19:334:20. 21,22;350:5,6,9; 351:15,19,22; 352:11;353:7,17; 354:2,13;355:15,20; 356:5,17;357:2,21; 399:1,2;413:15; 414:15,22;426:9,18; 430:5:431:13 nation (5) 519:16;582:22; 619:2;639:20;640:14 National (34) 335:1:336:5: 337:7:341:6:345:5: 346:12;350:14; 355:20:360:4.8.22: 371:3;381:17;383:2; 391:11:415:16; 421:10;430:9,12,20; 431:9;455:11;459:8;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com

620:12;621:11,15,

(22) Metrolink - National

464:8;467:1;482:17;

606:19;610:20;

506:8,11;522:12;

(23) nation's - Oklahoma

506:8,11;522:12;	606:19;610:20;	10,16,19;498:2,5,10;	nuanced (1)	occurred (3)
570:4;589:1;603:11;	616:4,5,9;628:5;	499:2,8,11,14,20;	636:7	419:1;424:15;
622:18;632:7	640:13;641:8	520:13,14;521:1;	number (44)	561:8
nation's (2)	needed (7)	522:1,5,8,19;523:3;	351:3;368:13;	occurring (2)
	469:21;493:5;			
522:11;604:3		524:2,5,9,14;525:3,	372:10;376:8,8;	409:11;519:8
nationwide (2)	550:18;572:5;585:2;	13,16;526:13,19,22;	377:17;378:7;	occurs (3)
397:21;625:6	606:16;615:12	527:4,6,15;528:10;	386:12;401:19;	419:10;471:1,4
Natural (19)	needle (1)	529:18;530:4,19,22;	403:5;410:3;416:3;	o'clock (2)
335:16,18;337:22;	630:18	531:9,21;532:12;	419:12;422:7;457:5,	477:21;644:2
338:18;339:9;	needs (16)	533:20;534:6,10,16;	8;459:11;461:12,13;	odds (1)
341:19;357:12;	353:6,8;357:5,7;	556:4;606:8,9;607:1;	463:20;472:10;	515:6
373:10,12;380:1,4;	367:22;379:17;	608:7,15,21;609:1	502:14;503:12;	off (19)
383:21;480:4;	430:7;453:18;459:6;	night (3)	510:15;511:16;	340:8;355:7;
483:18;507:1;511:9;	466:16;507:8;	407:4;411:13,22	513:11;516:22;	409:17,20;410:7,9;
	515:16;524:12;			
520:18;617:20;		nine (3)	531:10;549:18;	411:3,6,14,21;
638:22	575:21;576:1;600:9	336:16;507:10;	551:6,7,7;552:7;	414:14;420:8;437:8;
nature (3)	negotiation (1)	555:6	572:6,9;596:10;	438:3;439:6;448:10;
395:12;412:16,21	460:14	nobody (1)	602:21;603:19;	501:21;510:7;606:13
navigate (2)	neighborhood (11)	620:21	612:9;613:19;616:3;	offensive (1)
360:19;411:10	384:2,8;434:17;	Nodding (2)	624:13;627:9;629:20	412:7
near (9)	456:7,13,20;459:18;	446:17;626:16	numbers (1)	offer (3)
389:10;402:1,1;	467:11;475:2,22;	noise (1)	531:17	378:14;398:6;
441:6;451:7,9;466:6;	476:13	434:8	number's (1)	427:11
476:15;522:22			551:9	offered (2)
	neighborhoods (2)	non-compliance (2)		
nearby (1)	386:8;549:17	551:3,7	numerous (1)	498:15;499:1
410:6	neutral (1)	non-hydro (2)	510:13	offering (1)
necessarily (6)	357:7	521:4,11		454:4
353:1;357:5;	new (22)	non-profit (1)	Ο	Office (7)
476:14,16;496:13;	371:12;374:5;	383:2		337:3;372:4;
		-		
562:21	382:14;399:10,10,	non-public (1)	oath (3)	418:19;430:15,17;
necessary (3)	18;402:7;420:20,21;	336:5	334:5;479:2;	481:8;482:15
601:10;610:1;	435:10;441:2;466:3;	non-rail (1)	641:13	OFFICER (20)
601:10;610:1; 623:14	435:10;441:2;466:3;	non-rail (1) 480:17		OFFICER (20) 333:11:334:6 20:
623:14	533:7,18;552:7,12;	480:17	objective (3)	333:11;334:6,20;
623:14 necessitates (1)	533:7,18;552:7,12; 579:4;580:16,20;	480:17 Northern (2)	objective (3) 438:15;441:22;	333:11;334:6,20; 335:5,13;336:2,10,
623:14 necessitates (1) 503:4	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21	480:17 Northern (2) 335:19;456:19	objective (3) 438:15;441:22; 637:12	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14;
623:14 necessitates (1)	533:7,18;552:7,12; 579:4;580:16,20;	480:17 Northern (2)	objective (3) 438:15;441:22;	333:11;334:6,20; 335:5,13;336:2,10,
623:14 necessitates (1) 503:4 need (94)	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21	480:17 Northern (2) 335:19;456:19	objective (3) 438:15;441:22; 637:12 objectives (1)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13	480:17 Northern (2) 335:19;456:19 notations (1) 492:1	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11,
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1)	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3)
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1)	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3)
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3)
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1)	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19,	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10;	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5)
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9,	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1)	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13)	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14)
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102)	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18,	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7)
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16,	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22; 530:13,16;534:3,5;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13; 487:7,19;488:2,7,13,	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4) 423:15;459:16;	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15 occasion (1)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12; 416:17;544:21;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22; 530:13,16;534:3,5;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13; 487:7,19;488:2,7,13,	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4) 423:15;459:16;	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15 occasion (1) 568:22	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12; 416:17;544:21;
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22; 530:13,16;534:3,5; 549:21;557:21; 572:3,13;573:11;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13; 487:7,19;488:2,7,13, 19;489:1,4,10,14,17, 22;490:7,12,22;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4) 423:15;459:16; 460:7;465:3 NTSB (9)	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15 occasion (1) 568:22 occasionally (1)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12; 416:17;544:21; 596:19 oftentimes (1)
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22; 530:13,16;534:3,5; 549:21;557:21; 572:3,13;573:11; 574:17,21;575:5,7,	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13; 487:7,19;488:2,7,13, 19;489:1,4,10,14,17, 22;490:7,12,22; 491:3,7,9,15;492:1,6,	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4) 423:15;459:16; 460:7;465:3 NTSB (9) 388:3;403:13;	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15 occasion (1) 568:22 occasionally (1) 580:4	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12; 416:17;544:21; 596:19 oftentimes (1) 471:3
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22; 530:13,16;534:3,5; 549:21;557:21; 572:3,13;573:11; 574:17,21;575:5,7, 10,15;576:12;578:4;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13; 487:7,19;488:2,7,13, 19;489:1,4,10,14,17, 22;490:7,12,22; 491:3,7,9,15;492:1,6, 14,18,22;493:13,21;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4) 423:15;459:16; 460:7;465:3 NTSB (9) 388:3;403:13; 427:20;428:13;	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15 occasion (1) 568:22 occasionally (1) 580:4 occur (5)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12; 416:17;544:21; 596:19 oftentimes (1) 471:3 oil (1)
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22; 530:13,16;534:3,5; 549:21;557:21; 572:3,13;573:11; 574:17,21;575:5,7, 10,15;576:12;578:4; 597:8,9;599:2;601:5,	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13; 487:7,19;488:2,7,13, 19;489:1,4,10,14,17, 22;490:7,12,22; 491:3,7,9,15;492:1,6, 14,18,22;493:13,21; 494:4,10,12,16,20;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4) 423:15;459:16; 460:7;465:3 NTSB (9) 388:3;403:13; 427:20;428:13; 461:1;540:19;	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15 occasion (1) 568:22 occasionally (1) 580:4 occur (5) 352:21;354:6;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12; 416:17;544:21; 596:19 oftentimes (1) 471:3 oil (1) 371:5
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22; 530:13,16;534:3,5; 549:21;557:21; 572:3,13;573:11; 574:17,21;575:5,7, 10,15;576:12;578:4; 597:8,9;599:2;601:5, 12,18;602:5,13;	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13; 487:7,19;488:2,7,13, 19;489:1,4,10,14,17, 22;490:7,12,22; 491:3,7,9,15;492:1,6, 14,18,22;493:13,21; 494:4,10,12,16,20; 495:6,10,18,21;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4) 423:15;459:16; 460:7;465:3 NTSB (9) 388:3;403:13; 427:20;428:13;	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15 occasion (1) 568:22 occasionally (1) 580:4 occur (5)	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12; 416:17;544:21; 596:19 oftentimes (1) 471:3 oil (1) 371:5 Oklahoma (3)
623:14 necessitates (1) 503:4 need (94) 345:17,19,22; 346:12;352:9,12,16; 354:17;355:2,5; 356:12;357:15; 367:11;369:9,10; 370:10;380:10; 381:8,13;385:18,19, 22;386:3,4,12;387:9, 11;389:15;395:8; 396:8;397:11; 401:12;416:12; 417:3;427:6;442:11; 459:19;461:21; 466:19;467:9; 471:16;473:14; 474:15;504:15,16; 507:8,13,15,15,18, 20,22;508:6,6,8,8; 510:20;523:22; 530:13,16;534:3,5; 549:21;557:21; 572:3,13;573:11; 574:17,21;575:5,7, 10,15;576:12;578:4; 597:8,9;599:2;601:5,	533:7,18;552:7,12; 579:4;580:16,20; 594:16;611:5;639:21 newer (1) 533:13 newly (1) 389:9 newly-identified (1) 593:13 news (1) 451:18 newspapers (1) 387:1 next (13) 405:8,16;414:13; 439:3;451:2;468:13; 522:5;526:9;531:17; 535:12;548:9; 569:22;581:8 Nicholson (102) 482:22;483:11,12; 484:13;485:11,16, 20;486:2,8,11,13; 487:7,19;488:2,7,13, 19;489:1,4,10,14,17, 22;490:7,12,22; 491:3,7,9,15;492:1,6, 14,18,22;493:13,21; 494:4,10,12,16,20;	480:17 Northern (2) 335:19;456:19 notations (1) 492:1 note (2) 413:8;533:2 noted (3) 461:2;538:1;630:2 notes (3) 493:16;588:10; 589:16 notice (2) 430:5;634:7 noticed (2) 379:12;429:12 notifying (1) 453:17 notion (2) 572:20;578:16 November (1) 458:14 NPMS (4) 423:15;459:16; 460:7;465:3 NTSB (9) 388:3;403:13; 427:20;428:13; 461:1;540:19;	objective (3) 438:15;441:22; 637:12 objectives (1) 588:2 observers (2) 356:4;372:5 observing (1) 578:1 obtain (2) 390:10;610:13 obvious (1) 557:14 obviously (20) 340:10,19;341:21; 342:3;343:13; 366:21;407:15; 409:5;412:4;432:4; 446:14;447:10; 460:21;467:17; 471:14;545:15; 547:11;550:3;561:6; 594:15 occasion (1) 568:22 occasionally (1) 580:4 occur (5) 352:21;354:6;	333:11;334:6,20; 335:5,13;336:2,10, 21;337:14;478:8,14; 479:5,19;480:10; 481:3,19;482:8,11, 19;641:5 officers (3) 341:1;348:12,14 offices (3) 624:19,20,20 official (5) 336:9;374:19,20; 389:12;413:2 officials (14) 362:11;369:16; 381:21,22;389:7,13; 400:18;401:21; 413:17;417:13; 421:6,13;441:1; 463:10 often (7) 361:8;372:7; 384:4;387:12; 416:17;544:21; 596:19 oftentimes (1) 471:3 oil (1) 371:5

10,16,19;498:2,5,10;

nuanced (1)

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com

March 2, 2011

occurred (3)

old (5)	402:11;420:17;	627:8;628:18,22;	532:13;586:11;	22;352:5;354:22;
338:21;431:4;	423:6;466:5	630:2,20;633:16;	591:6	355:3,11;357:19;
456:21;539:13;598:2	only (30)	634:5,16;635:4,20	order (18)	359:19;362:21;
older (4)	336:5;338:3;	operators (64)	420:17;471:17;	364:21;366:18;
562:22;607:19;	363:1;383:2;386:21;	353:2,14,21;356:3;	500:15;514:4;534:7;	371:12;374:3,12;
612:18;642:10	387:15;391:18;	357:20;360:19;	554:4;575:9;579:3;	375:12;377:18;
once (17)	396:4;403:10;429:6;	371:17;372:19;	588:19;603:10;	378:7;380:10;
369:2;387:15;	439:7;447:1;451:17;	373:16;374:8;	605:17;613:17;	381:21;384:7,12,21;
395:5;416:10;447:5,	452:5;458:6;503:11;	376:10;378:14;	616:21;617:16;	386:15;387:12;
8,14;460:5;484:8;	519:3;539:2;562:21;	379:11,11;381:5;	619:20;636:9,10;	388:8;389:11,15,16;
501:6;502:21;528:8;	570:8;577:1,7;	394:13;395:14;	637:8	390:1;393:18;396:6;
562:2;570:8;578:18;	583:12,12;584:16;	396:8,18;397:1;	ordered (4)	397:16;401:17;
584:17;587:19	598:15;618:16;	400:22;420:1;	407:11;565:20;	406:17;407:5;
one (107)	631:21;636:2;640:10	423:15;424:7;	596:19;600:12	413:20;420:11;
335:22;349:13;	onsite (3)	426:12,22;436:15;	ordering (1)	428:8;431:15;
354:13,13;356:7;	491:1;541:3,10	444:18;449:10;	407:20	432:11,17;433:1,8,
358:16,16;360:15;	on-site (1)	458:5,16;461:11;	orders (2)	15;434:2;435:6;
361:2;366:5;369:9;	448:13	462:6;491:16;500:5;	496:7;613:22	436:16:437:2;
374:10;376:22;	onto (1)	502:17;504:9;	ordinances (2)	438:13;440:6,21;
379:12;386:1,6,12;	546:9	511:11;515:18;	401:22:441:4	441:20;442:4;446:7;
388:1;389:20;391:6;	onus (1)	517:21;533:9;	Oregon (1)	449:15;452:7;458:9;
393:8,14;401:8,19;	436:10	542:19;550:6;	617:19	459:19;460:1,3,6,16;
416:2,3,15;417:14;	open (6)	551:16;554:15;	organization (19)	461:10,10;462:5;
420:19;421:22;	388:15;416:1;	557:1;559:12;	355:17,22;356:4,	465:11,17,20;469:4,
422:22;425:11,16;	417:14;477:1;	562:17:567:8:568:4;	15,18;359:9;381:12;	8;471:14;472:18;
427:3;429:16;	616:21:631:1	582:21;593:21;	382:21;430:11;	475:6;484:8,11;
432:10;446:4;	opened (3)	594:2,3;596:19;	482:3;509:4,6;	485:21;518:15;
	355:1;376:17;	601:22;602:14,18;		519:19;523:15,21,
452:22;454:5,20; 456:21,22;459:16;	476:21	603:3;605:1;610:8;	618:12;624:15;	21;530:16;533:12;
			636:20,21,21;637:1, 9	
461:12;470:21;	opening (2)	617:21;618:16;		534:7;539:18,20;
474:13;486:21;	506:21;584:18	631:13	organizations (7)	541:2,11;545:19;
487:22;488:5,6,20;	operate (2)	operator's (11)	340:12;355:18;	548:8,11;550:21;
490:10,15;499:6;	380:1;596:9	357:6;391:21;	357:9,12;372:14;	552:6;553:3;555:18,
502:20,20;505:2,4;	operates (1)	392:2,9;486:18;	381:12;473:8	20;557:20;558:22;
510:14;511:5,7;	352:17	564:11,13,19;	organization's (1)	564:22;565:20;
515:8;516:1;517:3;	operating (17)	627:13;631:14;635:2	350:7	568:1;569:20;
518:15;519:1,3;	361:13;426:15;	operators' (2)	orientation (5)	571:14;576:12;
520:3;524:19;	495:15;520:19;	393:15;486:14	338:11,12;340:1;	578:4;585:11,12,18;
532:13;535:12;	525:18;526:2,8;	opinion (7)	344:1;347:8	586:4,12;595:18;
549:15;550:8;	528:16,19;531:6;	412:3;423:6,8;	oriented (1)	596:3,7;597:22;
552:16;553:1;	592:6,9,13,16,19;	454:8;516:20;	627:6	598:4,5,20;606:1;
562:16;563:18;	595:6,7	527:10,16	original (1)	611:5;612:16,19;
566:12;569:11;	operation (7)	opinions (1)	461:1	615:21;616:5,14;
572:13;574:9,10,16;	399:20;447:21;	460:18	Originally (1)	618:22;619:5;620:3,
575:11;576:2,14;	474:7;516:16;518:7;	opportunities (6)	424:7	6;624:21;627:7,17;
581:13,15;585:6;	619:22;635:14	420:21;436:14;	others (4)	628:2;629:5;631:9,
586:16;597:10,10;	operational (3)	454:12;465:19,19;	413:15;469:18;	16;638:3
598:2;603:5,18;	564:6,11,17	466:18	588:18;618:14	outcome (2)
604:9;605:15;612:1;	operations (8)	opportunity (16)	other's (1)	567:10;577:10
616:9;618:21;	335:12,16;501:2;	342:6;414:8,9;	552:17	outcomes (2)
630:10,16;635:9;	511:9;514:12;	416:16;428:14;	otherwise (1)	443:12;573:4
636:9;638:18;	528:17;564:18;613:8	452:19;463:6;469:9,	344:16	outlines (1)
640:10;641:1	operator (34)	16;470:5;476:3;	ought (4)	462:5
one-call (2)	393:10;415:17;	482:9;568:22;	354:6,9;390:1,2	outreach (12)
452:4;472:2	465:7;466:17;	575:17;619:4;643:16	ours (3)	340:12;358:11;
ones (2)	467:16;475:17;	opposed (5)	378:15;545:18;	369:13;385:14;
438:22;457:11	483:18;514:3;	344:12;347:20;	612:18	396:12,17,22;
one-size-fits-all (1)	517:15;552:9;553:4;	376:2,12;453:4	ourselves (5)	397:13;398:21;
563:21	555:5;557:12;558:4;	opt (1)	395:1;402:18;	403:5;423:18;465:16
one-step (1)	559:17;561:4,13;	591:14	416:9;426:4;551:18	outside (7)
468:18	563:15;578:22;	option (1)	out (140)	380:21;425:22;
online (6)	579:19;591:2;	591:10	342:6;345:2;	635:13,16;642:8;
360:13;367:13;	601:14;603:6;617:5;	options (3)	347:3;349:6;351:1,	643:7,12

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (24) old - outside

March 2, 2011

PG&E Gas Transmissio	on Pipeline - DAY 2	1	1	March 2, 2011
outstanding (1)	paid (1)	participants (2)	480:5	434:7,15,16;435:10;
539:13	442:10	372:5;391:3	passing (1)	437:14;438:9;
over (43)	panel (34)	participate (12)	399:21	439:15;440:10;
334:12;335:9;	333:7;337:20;	356:3,7;358:17;	password (2)	441:6;442:1,15;
337:9;350:22;351:9;	398:4,20;403:20,22;	363:6,17;368:20;	460:3;467:9	443:9,14:444:4;
356:5;370:21;393:2;	413:9;418:9;429:4,5;	424:19;425:3;	past (19)	451:6,9,22;452:1,6,
401:14;407:21;	437:16;438:13;	428:15;482:9;516:8;	336:16;351:6;	13,15;456:18;457:2;
419:2;435:6;438:6,9;	454:18;455:1,15;	517:1	356:6;373:19;389:5;	459:17,22;460:9,16;
450:21;452:8;	477:18;478:4;523:6;	participated (4)	426:20;440:22;	466:6;472:19;
475:14;485:17;	534:15;560:17;	373:19;450:4;	460:4;483:8;501:1;	473:10;474:14;
495:6;497:15;	561:1;564:4;573:17;	483:8;590:13	516:19;520:21;	475:10,11;477:5;
501:20;529:4;	585:8;586:6;595:2;	participating (4)	524:15;542:9;549:8;	511:12;512:11,11,
530:10;537:11;	597:20;600:22;	369:2;450:2;	602:8;614:5;620:5;	21,22;536:20;567:4;
542:18;543:16;	609:4;624:4;640:17;	466:3;635:10	626:14	575:1;584:8;585:12;
544:19;548:3,6,8;	641:2,4;644:3	participation (3)	pattern (2)	596:8,11;599:2;
552:7;553:6;570:15;	panelists (2)	356:11;361:12;	381:10;617:14	615:12;623:2;625:4;
582:20;616:5;	390:18;477:9	477:10	patterns (1)	627:6;628:5;630:22;
619:11;623:8;	PAPA (6)	particular (26)	374:16	631:2;632:1;635:15
624:13,16,17;	363:18;368:21;	354:14;362:8;	Paul (32) 407:1;478:21;	people's (3)
626:10;631:4;635:6	450:2;453:9;463:4,5	364:9;367:13; 374:16;381:9;389:2;		387:20;433:18; 595:20
overall (4) 473:12;483:17;	paper (2) 477:17;637:16	429:13:431:20;	479:11;482:12,13; 506:10;507:6;508:5;	per (2)
475.12,485.17, 598:21,21	papers (2)	429.13,431.20, 450:7;453:20;454:6;	519:10,15;520:8;	347:22;631:2
overcome (1)	424:19;425:3	457:13;475:9;476:7;	521:7;522:3,21;	percent (22)
552:20	paperwork (3)	496:3;516:14,21,21;	547:20,22;550:15;	365:6;490:16,20;
oversee (1)	615:20;616:2;	539:19;555:3;561:7;	551:20;570:3;	511:3;520:18;
627:3	620:9	566:16;572:19;	571:10,16;572:17;	521:21;522:11,15;
overseers (2)	paradigm (2)	609:22;617:8	573:1,12,17;574:12;	525:2;533:2;548:7,7;
588:9;589:17	380:15;450:17	particularly (4)	576:5;594:7;606:13;	581:19,19;584:5;
oversight (10)	paradigms (1)	426:13;456:18;	611:17;622:11;	608:11;618:8;625:1,
478:5;512:14;	380:6	477:15;594:20	639:19	11,22;640:4,6
567:16;573:5;	parallel (2)	parties (14)	pay (7)	percentage (3)
588:11,14;612:15;	338:9;404:14	354:5;404:2,8;	374:22;387:10;	396:22;511:17;
625:6;626:19;628:12	parameters (3)	412:14;413:5;	389:17,18;390:3;	513:3
overview (7)	376:11,12;579:10	425:22;454:22;	401:11;421:21	perfect (1)
341:14;359:12;	Pardon (3)	455:18,19;515:21;	paying (1)	416:11
369:21;371:1,8;	484:15;534:18;	570:16;601:1;609:6; 613:4	546:15	perfectly (2)
373:7;563:11 overwhelmed (1)	578:14		peel (1) 402:17	411:14;412:15
460:7	parents (1) 383:15	partner (2) 357:8;436:14	penalties (3)	performance (15) 480:20;482:1;
own (11)	park (2)	partnering (1)	617:21;634:8,12	485:4;510:11,13;
360:14;434:18;	383:9;555:4	504:13	penalty (3)	542:5;575:14;
436:20;446:22;	parks (4)	partners (7)	634:8,20;636:11	583:21;587:12;
456:2;478:11;487:2;	500:18;501:5;	553:16;567:21;	Peninsula (4)	591:11;619:8;627:2;
510:11;601:20;	554:19,22	569:5;570:16;	338:14;343:18;	628:4;632:17;636:3
613:14;627:19	part (44)	603:10;611:5;623:20	345:14;361:15	performance-based (35)
owner (1)	339:10;340:15;	partnership (3)	Pennsylvania (5)	507:5,7,12;554:11,
555:3	350:17;352:22;	418:16;571:5;	482:14,15;519:17;	12;567:5;571:13,16;
	353:18;355:1;	623:21	550:15;617:18	572:1,3,8,10,14,21;
Р	362:21;365:19;	partnerships (1)	people (96)	573:3;574:1,8;
	369:4;384:21;389:5;	570:13	343:1;361:19;	575:22;576:4;
Pacific (2)	400:2,3;415:4;	parts (3)	362:18;364:1;365:1;	581:16;585:15,19;
336:13;618:17	424:20;425:3,6,6;	440:5;489:8;536:8	374:14;375:13;	586:1;587:22;
pack (1)	433:20;439:5;443:3;	party (9)	381:9;382:5,6,12;	626:11,19;627:21;
594:6	445:20;458:20;	427:11;487:12,20;	384:7,16;385:9,18,	628:7,11;630:17;
package (4)	464:1;491:22;	488:12,14;537:5,11,	19;386:16,21;	632:22;633:13;
350:21;352:3,4,6	492:13;495:11;	15,21	387:10,14;388:8;	636:1,5;639:10
page (4)	516:14;518:4;519:3;	pass (5)	389:9;390:3;391:8,	performed (2)
450:15;451:2;	521:10;561:20;	439:2;499:21;	12,15;401:10;	483:16,18
460:2;467:14 pages (4)	586:14,19;587:6,21; 595:17;608:5,16;	508:9;534:11;606:7 passed (2)	408:16;413:20; 416:11,12;417:1,8,	performing (3) 541:13;584:8;
385:8;386:19;	609:14,18;630:11;	441:4;559:14	18;422:7;426:7;	618:21
465:7;483:21	638:1,6	passenger (1)	431:3,3;433:11,15;	performs (1)
		F		F 51101 (1)

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (25) outstanding - performs

PG&E Gas Transmissio	on Pipeline - DAY 2			March 2, 2011
571.10	246.10.247.2 10.	506.12.602.0.	262.2.262.2.264.2	278.19 20.280.1.
571:18	346:19;347:2,19;	596:13;603:9;	362:3;363:3;364:2,	378:18,20;380:1; 385:4,19;386:7,10;
perhaps (12)	348:7,15,18,20;	604:11;611:3;614:9;	20;369:16;371:8;	
342:11;388:22;	349:1,3,7;358:3,12;	619:3;621:4;622:12,	372:4;373:16,18;	388:3;389:10;
504:9;518:18; 528:14:561:0:	359:20;360:21;	22;623:11;636:18	374:8;376:10;	401:22;402:1;421:1;
528:14;561:9;	363:15;365:15;	PHMSA's (5)	378:17;379:11,16;	422:5;426:16;
573:21;577:16;	370:10;373:15,18;	474:13;475:15;	380:7;381:5,18;	431:16;435:5;441:2,
600:16;601:21;	377:17;379:12;	483:20;541:7;613:12	382:10,22;383:1,3,5,	6;455:3,22;456:13;
603:7;607:8	387:2;413:8;417:10;	phone (4)	13,17;384:2,8,9;	457:3;465:2,14;
perimeter (7)	418:5,12;424:4,19;	419:15;466:10;	385:21;388:14;	466:13;474:19;
446:22;447:2,7;	425:2;432:14; 435:19;455:22;	471:12,13	389:5;391:7,9,11; 398:8,18;400:9,12,	476:19;532:5;533:3; 543:16;544:20;
448:8,16,18;449:3 period (2)	456:7,13,14;457:1;	physically (1) 463:16	22;408:6,7,13;	561:2;578:13;615:6;
409:19;527:20	462:14;463:1;	pick (2)	414:17,22;415:17;	625:7
periodically (1)	464:20;466:3;	341:6;575:19	421:10;423:14;	pipes (8)
516:19	467:22;468:10;	picking (1)	424:7;426:12,22;	466:6;521:10,11;
periods (2)	469:6;470:11;	387:16	429:6,19,20,22;	570:11;575:18;
372:10:570:13	473:21,22;483:16;	picture (2)	430:1,6,7;431:22;	592:1:596:5:599:18
permitting (3)	487:9,16;488:8;	536:2;537:19	432:3;433:2,8;	place (8)
389:8;396:7;441:5	489:4,13;490:3;	pictures (1)	434:17;440:20;	353:3;371:13;
Perraulta (1)	493:2,4;495:12;	431:4	451:7,9,11,22;	390:21;391:5;
642:4	500:6;502:4;503:12;	piece (8)	455:11;458:5,10;	429:16;470:1;
person (6)	527:17;530:5;535:8;	388:7;415:15;	459:8,18;464:8;	605:18;625:17
419:9;485:22;	537:10;539:4,7;	453:12:454:6;	465:5,15;466:4;	placed (1)
541:19;542:21;	556:8,19;559:13;	463:14;542:14;	467:1,10;475:1,9;	455:4
616:6;624:5	560:22;566:6;579:2;	604:1:637:15	476:14;481:7,9;	placement (1)
personal (2)	581:7;592:8;593:9;	pieces (3)	482:17;495:19;	605:2
474:1;637:12	594:5,20;600:9;	362:20;378:7;	496:5,8,9;506:9,11,	places (5)
personalized (2)	604:11;605:9,17;	630:7	16,17,18;511:10,18;	443:10;467:8;
384:15;401:10	620:20;623:18	piggable (2)	512:13,15;513:4,9,	606:17,20,21
personally (1)	PG&E's (11)	532:11;599:18	17;514:3;515:7,13;	plan (28)
432:14	347:22;376:5;	pigged (1)	519:13;520:3;521:5;	359:13;484:18,21;
personnel (11)	386:15;421:3;424:1;	531:11	522:15;529:6;	485:8;486:15;
341:2,16;342:15,	496:4;523:4;525:5;	pilot (1)	531:10;533:6;	487:13;491:10;
15;347:2;348:10;	527:8;539:1;599:16	431:4	538:13;540:14,14,	492:10,15;495:12;
370:14;372:3;	phase (4)	pinching (1)	15,15;541:12,12,14,	529:1;536:14,17;
511:22;632:5,13	468:14;565:21,22,	420:8	14,21;542:3;544:9,	548:15;562:5,13;
persons (1)	22	PIPA (3)	13,14,15;545:13,20;	564:22;565:6;568:1;
485:13	phases (1)	382:9;400:7,15	546:3,13;547:6;	569:5;617:9,10;
perspective (12)	565:21	pipe (46)	549:1;557:12;561:3,	630:6,11;633:22;
355:5;357:6;	philosophy (1)	404:16,18;405:7,7;	6,9;562:8,21,22;	638:11;639:3,5
358:7,9;399:3;	561:21	409:22;420:12;	563:17;565:3,17;	plane (2)
581:14;587:1;	PHMSA (74)	492:3;495:13;496:1,	566:20;567:20;	408:17;409:1
594:14,22;597:13;	337:4,9,10;371:13;	13,15,17;524:19,22;	568:8;570:5;572:9;	Planning (12)
620:19;637:13	373:22;381:17;	528:2,6,7;529:10;	578:17;579:18;	382:10;389:6,13;
pertaining (2)	390:14,19;391:1,13;	531:22;533:1;557:2;	580:9;589:2;594:3;	400:17,17;402:1;
484:5;486:7 Porusing (2)	393:12;395:9;396:3,	560:1;563:3,4,5,7,	595:7;605:21;	434:1;435:5;440:20;
Perusing (2) 493:16;513:13	10;403:6;413:8,9;	22;564:1;576:16; 577:18;578:2;	609:14,21;610:8; 611:5,17;612:17;	441:2;462:1;500:9
Peter (16)	444:9,13,16;464:7; 490:11;492:12;	579:11,20;591:7,8,	613:21;615:13;	plans (15) 433:22;458:2,8;
333:13,20;335:7,7;	498:15;499:1;	20;592:3;595:14;	617:21;622:19;	468:15,15;489:19;
371:3,11;372:1,16,	506:17;507:8;510:7,	596:4;598:3;599:3,	623:3,8;624:8;625:1,	490:19;503:19;
21;374:4;375:10;	13;521:17;522:2,14,	20;607:19;629:10,	7:628:16	536:9;537:16;631:3;
378:3;382:13;	20;523:10,11;530:9;	19;643:12	pipeline-related (1)	632:4,8;633:13;
399:14;424:18;425:2	531:10,22;532:15;	pipeline (200)	335:10	638:8
Peter's (1)	533:20;534:18;	335:11,22;336:4,6;	Pipelines (54)	plastic (1)
400:20	536:12;538:22;	337:5,8;339:2,3,17;	335:18;337:22;	349:20
Petroleum (1)	539:22;540:2,11;	340:21;345:5,13;	338:9,13,14;342:1;	players (1)
335:8	542:9;548:10;	346:13;347:15;	343:17,19,21;	428:15
PG&E (93)	560:20;563:10;	348:3;350:8,10,12;	344:15;350:17;	playing (1)
336:16;338:11,20;	564:4;566:10;569:4,	352:10,12,16,18;	356:9;360:17;	383:9
339:12,19;340:10;	12,18;570:10,20;	353:14,21;356:2,10;	362:18;366:14;	plays (1)
342:10,13,15;	582:20;589:8,13;	357:19;358:8,18;	369:12;370:12;	569:20
343:17;344:6;	593:8,18;595:3;	359:20;360:2,4;	373:13;375:2;	please (37)
				,

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (26) perhaps - please

PG&E Gas Transmissio	on Pipeline - DAY 2			March 2, 2011
333:9,16;334:7;	populate (2)	371:10,16;374:9;	pressure (59)	priorities (2)
337:19;339:20;	540:13;577:2	375:9;439:8;444:11,	346:9;447:11;	504:22;639:15
345:10;350:6;358:3;	populated (1)	18;445:1;525:6;	495:15;515:9;	priority (1)
371:2,7;373:8;377:6;	496:4	533:21;609:15	519:16;520:1;525:1,	605:11
382:20;390:11;	populating (1)	practices (2)	18,22;526:2,7,10,11,	private (3)
393:6,16;411:6;	498:6	373:20;610:4	17;528:2,16,18,19;	445:14;446:13;
425:14;437:22;	population (4)	pre-1961 (1)	529:2,7,11,13,15,20;	542:19
449:5;450:15;451:3;	367:14;400:9;	523:6	530:2;531:1,2,5,6;	proactive (1)
463:3;471:21;478:6,	450:10;565:11	pre-1970 (4)	532:13,15,17;	599:12
14;479:6;483:11;	populations (1)	495:13,19;521:4;	578:18,22;579:3,7,9,	probably (20)
513:11,21;514:21;	463:8	522:15	9,14,20;580:14,15,	355:4;357:10;
535:6;538:16;	portal (2)	pre-1971 (2)	17;591:9,11;592:9,	404:21;406:16;
556:17;560:15;	357:3;415:8	521:10,19	13,16,17,19;595:6,7,	407:17;408:2;438:8;
564:14;595:3	portion (4)	pre-'70 (1)	15;598:1,3,10;	447:19;448:22;
plenty (2)	360:11;449:15;	563:4	600:10,15;613:18	474:21;476:20;
575:1;630:14	541:13;570:12	preceding (2)	pressures (2)	500:11;511:21;
PM (4)	portions (1)	526:3,4	420:13;520:19	550:10;560:4;
477:22;478:2;	590:1	predicament (1)	pressure-tested (1)	569:11;575:4;
560:14;644:7	portray (1)	550:3	529:6	578:15;590:21;
point (32)	385:4	pre-event (1)	presume (1)	624:14
342:17;357:1;	portrayal (1)	426:10	614:22	probing (1)
371:12;376:1;	584:5	pre-existing (1)	pretty (9)	593:6
379:21;416:18;	pose (2)	400:14	343:22;385:18;	problem (7)
421:11;437:22;	521:6;550:4	preferable (2)	400:10,20;446:21;	452:3;523:7,15;
438:21;447:2; 468:17;469:1,2;	posed (2) 426:16;534:14	634:13,14 preparation (1)	468:6;495:2,3; 582:21	524:15;548:4; 582:18;597:10
503:15;510:17;	posing (1)	640:20	prevent (1)	problematic (2)
518:22;521:2;	455:1	prepare (2)	446:10	563:5;610:10
526:18;549:8;	position (9)	339:17;507:9	Preventative (1)	problems (14)
551:12;553:10;	336:14;339:18;	prepared (1)	485:3	380:9;386:1;
570:4;572:2;600:9;	481:1;507:6;521:4,7;	567:17	prevented (1)	391:6;451:20;
606:5;624:21;629:1;	533:21;546:1;593:9	preparedness (3)	446:15	452:15;519:8,11;
632:12,18;633:16;	positions (2)	368:2,5;423:10	prevention (11)	537:4;565:3;606:2;
638:7;640:9	546:15;549:7	preplan (1)	337:10;368:2,3;	620:4;628:13;
pointed (2)	positive (2)	342:2	385:22;386:17;	631:10;638:18
619:5;628:2	420:3;459:2	pre-planned (1)	403:8;441:10;443:8;	procedural (6)
points (3)	possibility (6)	339:15	465:10;473:13;541:6	489:6;490:15;
542:19;543:1;	349:5;409:5;	prerogative (1)	preventive (2)	493:11,13;494:22;
631:8	412:5;550:10;595:9,	621:10	562:14;568:15	564:11
poles (1)	13	prescribed (1)	prevents (1)	procedure (4)
475:5	possible (6)	376:4	528:17	365:21;498:6;
police (7)	354:17;443:12;	prescriptive (27)	Previous (8)	535:4;536:15
358:21;418:18;	515:10;523:1;	507:4,13;554:10;	335:2;417:5;	procedures (27)
419:21;437:9;468:1;	545:16;561:18	566:18;571:12,19;	464:12;499:6;	348:1;365:14;
469:18;471:16 policies (3)	possibly (1) 380:5	572:15,21;573:14, 21;574:7,17;575:13;	502:15;531:7; 539:12;630:4	471:10;484:4;486:6;
365:15;471:10;	post (4)	576:2;585:5,6;601:6,	previously (2)	489:7,8;490:19; 534:22;535:3,13,15,
508:20	341:10;370:2;	9;626:13;627:7,20;	373:22;641:13	17,18,20;538:3,4;
policy (6)	402:16;470:16	628:3,6;636:15;	Primarily (5)	541:4,5;564:7,11,17,
365:21;480:3;	postcard (1)	638:18,19;639:10	348:9;355:21;	18;568:19,19,20;
509:2,3,19;608:18	452:2	presence (1)	372:2;582:17;616:2	642:20
political (1)	postcards (2)	368:16	primary (2)	proceed (2)
480:7	450:21;451:1	present (1)	475:4;516:3	350:5;483:11
poll (1)	post-September (2)	471:17	Prior (20)	proceeding (1)
379:5	341:12;470:8	presentations (2)	337:3,21;341:9;	427:21
polled (1)	post-war (1)	339:12;396:11	342:9;346:13;348:5;	proceeds (1)
379:1	533:3	presented (5)	358:12;370:5,18;	477:11
POPA (1)	potential (6)	339:13;347:2;	402:17;413:17;	process (38)
367:7	340:9;384:9;	425:5;477:4;581:7	414:3;455:10;	351:7;364:6;
pops (1)	420:8,9;609:11,12	preserving (1)	467:21;522:13;	367:4;372:6;373:2;
573:13	potentially (2)	469:20	529:12;530:2;	379:1;392:5;395:1;
popular (1)	477:17;594:2	President (1)	533:16;542:13;	400:8,21;457:12;
387:4	practice (11)	335:15	615:11	461:9;462:5;468:21;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (27) plenty - process

	on Pipeline - DAY 2	1		March 2, 2011
486:16;487:13,14;	603:8;614:14;617:7;	634:19	358:8,18;362:2,3,15;	517:17
498:6;510:4;518:17;	619:18;623:9,10;		363:21;365:9;367:5,	
		propose (1) 607:15		purposes (2) 425:12;460:17
519:18,20;536:6;	625:8,12,12,18,21;		19;371:8,19;373:14; 374:9,19;375:9;	
537:12,13,17;540:2,	627:15;629:16,18	proposing (1)		pursuing (1)
3,5;567:16;570:7,9;	programs (63)	570:6	376:6;379:12;381:6,	558:13
574:4;607:12,13; 608:4,5;622:13	358:17;363:20; 366:17;371:19;	pros (5)	7,21;383:2,20; 384:13;385:14,15;	purview (1) 413:3
processes (3)	372:20;377:14;	594:18,22;595:4; 596:21;600:4	386:2,10,16;388:7;	put (12)
366:1;441:5;588:8	378:6,14:381:7;	protect (3)	389:7;391:14;	359:9;371:13;
produced (1)	385:14;391:15;	389:9;553:18;	393:15;398:7;399:3,	374:12:384:19;
390:5	399:15;400:4;	605:3	14;400:3;401:21;	414:12;425:14;
producing (2)	401:14;424:9,11;	protected (1)	403:3,9;405:10;	431:11;435:9;
366:22;546:21	426:3,13;431:1;	572:7	407:2;408:2;411:8;	512:12;550:22;
product (1)	444:19;449:11,14;	protecting (1)	416:3;417:13;	607:19;630:21
466:15	462:7;480:17;	445:14	418:10,14;420:2,22;	puts (1)
productive (1)	481:12,22;482:1;	Protection (3)	421:5,12,13;422:20;	418:12
602:21	486:6;499:10;	479:22;480:15;	423:7;424:1,5,8,13,	putting (5)
professionals (3)	503:18;512:15;	517:11	16;426:2,4,12;	543:17,18;562:12;
358:20;420:1;	519:14;540:1,4;	protections (1)	432:17;436:1,11,19,	606:5;611:19
463:10	541:8;543:6,13;	567:3	21;437:18;439:10,	PYs (5)
program (146)	545:17;546:3;	protocol (9)	17;440:3,13;441:1;	511:21,21,22;
336:12;337:2,3,6;	547:12;548:1,8;	483:20,20;484:3;	445:14;446:13;	624:5,8
349:4;350:11;	552:21;561:10;	498:16;534:19;	449:8,10,13;450:3,	
351:12;357:18;	581:16;582:15;	535:11,14,17;597:3	20;455:10;456:12;	Q
358:19;362:2,3,7,8;	583:1;584:14;	protocols (7)	458:7;460:21;462:3;	
363:10;365:10;	585:20;587:22;	536:1,4,6,12,21;	463:8,10;464:17;	qualification (1)
366:20;367:9,19;	590:3,5,6;603:7;	567:22;568:13	465:10,18,20;466:5;	481:13
368:4,5,18,19;374:1,	611:18;614:13,16;	provide (39)	467:2,9;471:4;472:2;	qualifications (2)
1,4;376:6;378:5,13;	616:4;617:6;624:22;	340:12,17,22;	473:3,3;480:1,16;	412:19;552:10
379:13;391:18,19,	626:5,8,20	341:13;346:20;	482:14,15;515:11;	qualified (7)
19,20;392:9;393:15,	program's (1)	360:3;363:2,7;	547:18;553:17,18;	337:16;396:5;
20,21;394:19;	583:20	366:19;370:10,22;	585:9,22;595:22;	482:21;498:14;
395:20;396:1,2,2,16,	progress (2)	371:7;372:19;373:6;	603:8;610:14;633:8;	543:10;555:5;585:20
395:20;396:1,2,2,16, 16;397:4,13,20;	progress (2) 349:8;639:6	371:7;372:19;373:6; 377:22;378:8;	603:8;610:14;633:8; 634:16	543:10;555:5;585:20 qualitative (2)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18;	progress (2) 349:8;639:6 progressed (1)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4;	603:8;610:14;633:8; 634:16 published (2)	543:10;555:5;585:20 qualitative (2) 618:19;619:16
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17;	progress (2) 349:8;639:6 progressed (1) 381:16	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14;
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9;	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18;	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10;	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14;
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18;	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11)	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21;	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1,	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8,	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8, 9,12;511:11,18;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5;	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8, 9,12;511:11,18; 512:17,18;513:4,5,9;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1)	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8, 9,12;511:11,18; 512:17,18;513:4,5,9; 515:13;534:22;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8, 9,12;511:11,18; 512:17,18;513:4,5,9;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11 provides (8)	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5;
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8, 9,12;511:11,18; 512:17,18;513:4,5,9; 515:13;534:22; 535:2;537:13,14;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8, 9,12;511:11,18; 512:17,18;513:4,5,9; 515:13;534:22; 535:2;537:13,14; 538:19;539:1;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20 propane (2)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11 provides (8) 358:19,22;359:11; 368:6;475:18,20; 567:2;626:4	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4 pulling (1)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5; 467:19;568:18;609:8
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8, 9,12;511:11,18; 512:17,18;513:4,5,9; 515:13;534:22; 535:2;537:13,14; 538:19;539:1; 540:10,15,16;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20 propane (2) 430:1;500:19	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11 provides (8) 358:19,22;359:11; 368:6;475:18,20;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4 pulling (1) 569:7	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5; 467:19;568:18;609:8 quickly (5)
$\begin{array}{c} 395:20;396:1,2,2,16,\\ 16;397:4,13,20;\\ 398:14;399:18;\\ 403:1,2,9;414:17;\\ 415:2;424:2,19;\\ 425:3;431:11;\\ 439:11;440:6,12;\\ 445:8;450:3,18;\\ 452:9;461:12;462:2;\\ 465:6,11,15,17;\\ 466:4;468:14;\\ 481:10;484:1,5;\\ 485:9;486:19;487:1,\\ 9;489:12;498:19;\\ 499:3;508:13;509:8,\\ 9,12;511:11,18;\\ 512:17,18;513:4,5,9;\\ 515:13;534:22;\\ 535:2;537:13,14;\\ 538:19;539:1;\\ 540:10,15,16;\\ 541:15;543:10;\\ 544:8,13,18;545:3;\\ 549:1;550:20;\\ \end{array}$	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20 propane (2) 430:1;500:19 proper (1) 606:20 properly (1)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11 provides (8) 358:19,22;359:11; 368:6;475:18,20; 567:2;626:4	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4 pulling (1) 569:7 pups (2) 530:7;577:17 purchase (2)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5; 467:19;568:18;609:8 quickly (5) 398:4;426:1; 468:20;567:17,19 quite (11)
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8, 9,12;511:11,18; 512:17,18;513:4,5,9; 515:13;534:22; 535:2;537:13,14; 538:19;539:1; 540:10,15,16; 541:15;543:10; 544:8,13,18;545:3; 549:1;550:20; 551:11;561:5;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20 propane (2) 430:1;500:19 proper (1) 606:20	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11 provides (8) 358:19,22;359:11; 368:6;475:18,20; 567:2;626:4 providing (6) 346:8;380:3; 419:10;457:2;	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4 pulling (1) 569:7 pups (2) 530:7;577:17 purchase (2) 435:10;496:6	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5; 467:19;568:18;609:8 quickly (5) 398:4;426:1; 468:20;567:17,19 quite (11) 343:8;345:20;
$\begin{array}{c} 395:20;396:1,2,2,16,\\ 16;397:4,13,20;\\ 398:14;399:18;\\ 403:1,2,9;414:17;\\ 415:2;424:2,19;\\ 425:3;431:11;\\ 439:11;440:6,12;\\ 445:8;450:3,18;\\ 452:9;461:12;462:2;\\ 465:6,11,15,17;\\ 466:4;468:14;\\ 481:10;484:1,5;\\ 485:9;486:19;487:1,\\ 9;489:12;498:19;\\ 499:3;508:13;509:8,\\ 9,12;511:11,18;\\ 512:17,18;513:4,5,9;\\ 515:13;534:22;\\ 535:2;537:13,14;\\ 538:19;539:1;\\ 540:10,15,16;\\ 541:15;543:10;\\ 544:8,13,18;545:3;\\ 549:1;550:20;\\ 551:11;561:5;\\ 563:13,19;564:13,\\ \end{array}$	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20 propane (2) 430:1;500:19 proper (1) 606:20 properly (1) 573:5 properties (3)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11 provides (8) 358:19,22;359:11; 368:6;475:18,20; 567:2;626:4 providing (6) 346:8;380:3; 419:10;457:2; 469:22;626:6	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4 pulling (1) 569:7 pups (2) 530:7;577:17 purchase (2) 435:10;496:6 purchasing (1)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5; 467:19;568:18;609:8 quickly (5) 398:4;426:1; 468:20;567:17,19 quite (11) 343:8;345:20; 396:15;460:1;
$\begin{array}{c} 395:20;396:1,2,2,16,\\ 16;397:4,13,20;\\ 398:14;399:18;\\ 403:1,2,9;414:17;\\ 415:2;424:2,19;\\ 425:3;431:11;\\ 439:11;440:6,12;\\ 445:8;450:3,18;\\ 452:9;461:12;462:2;\\ 465:6,11,15,17;\\ 466:4;468:14;\\ 481:10;484:1,5;\\ 485:9;486:19;487:1,\\ 9;489:12;498:19;\\ 499:3;508:13;509:8,\\ 9,12;511:11,18;\\ 512:17,18;513:4,5,9;\\ 515:13;534:22;\\ 535:2;537:13,14;\\ 538:19;539:1;\\ 540:10,15,16;\\ 541:15;543:10;\\ 544:8,13,18;545:3;\\ 549:1;550:20;\\ 551:11;561:5;\\ 563:13,19;564:13,\\ 20;565:2;567:21;\\ \end{array}$	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20 propane (2) 430:1;500:19 proper (1) 606:20 properly (1) 573:5 properties (3) 410:16;446:16,16	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provides (8) 358:19,22;359:11; 368:6;475:18,20; 567:2;626:4 providing (6) 346:8;380:3; 419:10;457:2; 469:22;626:6 psi (1)	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4 pulling (1) 569:7 pups (2) 530:7;577:17 purchase (2) 435:10;496:6 purchasing (1) 476:11	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5; 467:19;568:18;609:8 quickly (5) 398:4;426:1; 468:20;567:17,19 quite (11) 343:8;345:20; 396:15;460:1; 570:18;595:12;
$\begin{array}{c} 395:20;396:1,2,2,16,\\ 16;397:4,13,20;\\ 398:14;399:18;\\ 403:1,2,9;414:17;\\ 415:2;424:2,19;\\ 425:3;431:11;\\ 439:11;440:6,12;\\ 445:8;450:3,18;\\ 452:9;461:12;462:2;\\ 465:6,11,15,17;\\ 466:4;468:14;\\ 481:10;484:1,5;\\ 485:9;486:19;487:1,\\ 9;489:12;498:19;\\ 499:3;508:13;509:8,\\ 9,12;511:11,18;\\ 512:17,18;513:4,5,9;\\ 515:13;534:22;\\ 535:2;537:13,14;\\ 538:19;539:1;\\ 540:10,15,16;\\ 541:15;543:10;\\ 544:8,13,18;545:3;\\ 549:1;550:20;\\ 551:11;561:5;\\ 563:13,19;564:13,\\ 20;565:2;567:21;\\ 568:1;569:3;577:1,7;\\ \end{array}$	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20 propane (2) 430:1;500:19 proper (1) 606:20 properly (1) 573:5 properties (3) 410:16;446:16,16 property (5)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11 provides (8) 358:19,22;359:11; 368:6;475:18,20; 567:2;626:4 providing (6) 346:8;380:3; 419:10;457:2; 469:22;626:6 psi (1) 346:10	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4 pulling (1) 569:7 pups (2) 530:7;577:17 purchase (2) 435:10;496:6 purchasing (1) 476:11 purple (1)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5; 467:19;568:18;609:8 quickly (5) 398:4;426:1; 468:20;567:17,19 quite (11) 343:8;345:20; 396:15;460:1; 570:18;595:12; 607:14,14;622:19;
395:20;396:1,2,2,16, 16;397:4,13,20; 398:14;399:18; 403:1,2,9;414:17; 415:2;424:2,19; 425:3;431:11; 439:11;440:6,12; 445:8;450:3,18; 452:9;461:12;462:2; 465:6,11,15,17; 466:4;468:14; 481:10;484:1,5; 485:9;486:19;487:1, 9;489:12;498:19; 499:3;508:13;509:8, 9,12;511:11,18; 512:17,18;513:4,5,9; 515:13;534:22; 535:2;537:13,14; 538:19;539:1; 540:10,15,16; 541:15;543:10; 544:8,13,18;545:3; 549:1;550:20; 551:11;561:5; 563:13,19;564:13, 20;565:2;567:21; 568:1;569:3;577:1,7; 583:13,15;585:17;	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20 propane (2) 430:1;500:19 proper (1) 606:20 properly (1) 573:5 properties (3) 410:16;446:16,16 property (5) 434:10;445:15;	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11 provides (8) 358:19,22;359:11; 368:6;475:18,20; 567:2;626:4 providing (6) 346:8;380:3; 419:10;457:2; 469:22;626:6 psi (1) 346:10 public (120)	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4 pulling (1) 569:7 pups (2) 530:7;577:17 purchase (2) 435:10;496:6 purchasing (1) 476:11 purple (1) 410:15	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5; 467:19;568:18;609:8 quickly (5) 398:4;426:1; 468:20;567:17,19 quite (11) 343:8;345:20; 396:15;460:1; 570:18;595:12; 607:14,14;622:19; 634:9;636:7
$\begin{array}{c} 395:20;396:1,2,2,16,\\ 16;397:4,13,20;\\ 398:14;399:18;\\ 403:1,2,9;414:17;\\ 415:2;424:2,19;\\ 425:3;431:11;\\ 439:11;440:6,12;\\ 445:8;450:3,18;\\ 452:9;461:12;462:2;\\ 465:6,11,15,17;\\ 466:4;468:14;\\ 481:10;484:1,5;\\ 485:9;486:19;487:1,\\ 9;489:12;498:19;\\ 499:3;508:13;509:8,\\ 9,12;511:11,18;\\ 512:17,18;513:4,5,9;\\ 515:13;534:22;\\ 535:2;537:13,14;\\ 538:19;539:1;\\ 540:10,15,16;\\ 541:15;543:10;\\ 544:8,13,18;545:3;\\ 549:1;550:20;\\ 551:11;561:5;\\ 563:13,19;564:13,\\ 20;565:2;567:21;\\ 568:1;569:3;577:1,7;\\ \end{array}$	progress (2) 349:8;639:6 progressed (1) 381:16 progressive (1) 617:2 project (9) 350:12;389:4,10; 482:5;484:4;512:18; 514:5;535:19;625:14 projects (5) 498:1;516:16,21; 519:2,3 promote (1) 506:18 prompt (1) 454:15 promulgated (1) 532:20 propane (2) 430:1;500:19 proper (1) 606:20 properly (1) 573:5 properties (3) 410:16;446:16,16 property (5)	371:7;372:19;373:6; 377:22;378:8; 384:13;386:4; 397:22;402:11; 406:18;420:14; 423:9;457:7;506:15; 516:9,12;518:11,18; 523:2;535:9,10; 558:4,10;559:7,17; 597:14;626:3;629:1 provided (11) 339:20;341:2; 343:21;348:20; 369:8,22;370:14; 420:18;535:8; 541:17;643:10 provider (1) 433:11 provides (8) 358:19,22;359:11; 368:6;475:18,20; 567:2;626:4 providing (6) 346:8;380:3; 419:10;457:2; 469:22;626:6 psi (1) 346:10	603:8;610:14;633:8; 634:16 published (2) 374:6;382:11 PUC (6) 542:8;543:9; 565:10,14;582:18; 588:10 PUCs (3) 582:1,12;584:8 PUC's (1) 625:20 Puerto (1) 506:14 pull (4) 442:3;449:5; 450:12;612:21 pulled (2) 467:1,4 pulling (1) 569:7 pups (2) 530:7;577:17 purchase (2) 435:10;496:6 purchasing (1) 476:11 purple (1)	543:10;555:5;585:20 qualitative (2) 618:19;619:16 Quality (3) 485:7;498:14; 635:10 quantify (3) 588:1;619:14; 620:11 quantitative (1) 618:20 quarter (1) 383:5 queried (1) 361:3 questionable (1) 606:3 quick (5) 422:15;459:5; 467:19;568:18;609:8 quickly (5) 398:4;426:1; 468:20;567:17,19 quite (11) 343:8;345:20; 396:15;460:1; 570:18;595:12; 607:14,14;622:19;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (28) processes - quo

FG&E Gas Transmissio		1	1	March 2, 2011
quote (1)	573:22;583:19	491:21;500:9;537:2;	recommendation (6)	373:11;399:19
388:3	rationale (1)	563:6;565:2;575:21;	400:1,5;435:7;	reflecting (1)
quote/unquote (2)	532:14	599:9;600:20;	461:1;569:16;602:2	574:10
556:10,21	RAVI (25)	606:10;615:21;	recommendations (4)	reflective (1)
	500:1;501:11,15;	619:16;623:4;642:13	403:13,16;444:21;	543:20
R	503:6,16,22;504:5,	realm (1)	540:18	reformulate (1)
	17;505:8;506:6,20;	586:15	recommended (8)	453:22
radiant (1)	508:2,9;556:5,18;	reason (10)	374:8;375:9;	refunding (1)
448:21	557:8;558:12;559:8,	368:12:405:14;	391:4;444:11,17;	625:19
radius (2)	11,22;560:9;604:5;	428:10;431:20;	541:19;542:22;	regard (16)
422:1;466:2	605:22;606:7;609:3	456:8,16;475:4;	600:12	405:9;421:3;
Raffy (1)	RCV (1)	494:5;578:19;593:2	reconvene (1)	458:1;500:17;
589:5	604:8	reasonable (4)	644:1	509:11;514:7,11;
rail (2)	RCVs (3)	473:22;516:4,18;	record (9)	524:18;554:6;564:9;
480:5,6	604:19;607:3;	576:13	333:12;460:19;	595:12;605:16;
railroad (1)	608:18	reasons (1)	477:14;478:10;	613:21;638:6,14;
434:20	reach (8)	494:3	479:7;497:15;	639:6
railroads (2)	357:19;366:16;	recall (10)	531:20;549:19;	regarding (13)
480:5,5	379:5;396:6;458:9;	378:19;510:16;	572:16	349:3;427:16;
raise (4)	465:20;473:21;	531:13;538:5;	recording (1)	428:3;464:6;468:1;
442:17;478:14;	553:19	614:16;641:2,4,6;	601:8	525:5;564:6;588:13;
578:22;580:14	reached (2)	642:3;643:10	Record-keeping (5)	589:17;604:8,9;
raised (3)	459:10;460:13	receipt (1)	485:5;572:12;	608:18;609:9
427:16;579:3;	reaching (5)	378:19	573:9,13;614:6	regards (2)
631:7	384:12;436:16;	receive (6)	records (27)	347:13;491:11
raising (7)	437:2;612:16,19	365:5;401:11;	393:19,22;425:6;	region (9)
453:17;528:2,7,18;	read (9)	406:3;498:12;510:1;	484:4;497:13;	396:3;397:7,7,8;
529:2;595:14;634:20	346:10;355:1;	640:4	521:13,14,15,20;	424:20;425:4;
ran(4)	382:6;385:10;	received (11)	533:9,11;534:20;	481:17;624:19,20
344:2;404:18;	386:21;388:8;418:3;	346:19;347:10;	535:22;536:17; 561:9,13,14;568:13,	regional (1) 570:21
526:7;537:17	442:5,19	349:11;367:7;394:8;		
				woonlow (1)
randomly (1)	reading (1)	451:5;452:20;457:9;	14;578:4;602:9;	regular (1)
497:13	452:5	463:21;511:3;542:8	616:14,15;628:21;	338:12
497:13 ranking (1)	452:5 ready (3)	463:21;511:3;542:8 receiving (5)	616:14,15;628:21; 632:1;643:9,11	338:12 regulate (1)
497:13 ranking (1) 492:2	452:5 ready (3) 337:16;390:13;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19;	616:14,15;628:21; 632:1;643:9,11 recover (1)	338:12 regulate (1) 624:22
497:13 ranking (1) 492:2 rapidly (1)	452:5 ready (3) 337:16;390:13; 482:21	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11	338:12 regulate (1) 624:22 regulated (2)
497:13 ranking (1) 492:2 rapidly (1) 414:21	452:5 ready (3) 337:16;390:13; 482:21 real (11)	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1)	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1;	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1)
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1)	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21)	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3;	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23)
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18;	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19;	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21;	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22;	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2)	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3)	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2)	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22;	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4)	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1)	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13;	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recipients (2)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51)
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1)	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recipients (2) 378:21;453:14	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13)	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recipients (2) 378:21;453:14 recognition (3)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10,	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46)	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recipients (2) 378:21;453:14 recognition (3) 352:14;363:1;	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 464:13;642:5	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8; 396:14;458:1,5;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10, 16;438:16;442:1;	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46) 339:2;340:1,6;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recipients (2) 378:21;453:14 recognition (3) 352:14;363:1; 414:17	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 464:13;642:5 references (2)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8; 396:14;458:1,5; 465:6;507:13,20,21;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10, 16;438:16;442:1; 515:10,19;516:4,6;	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46) 339:2;340:1,6; 351:9;369:8;370:6;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recipients (2) 378:21;453:14 recognition (3) 352:14;363:1; 414:17 recognize (5)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 464:13;642:5 references (2) 436:9;578:16	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8; 396:14;458:1,5; 465:6;507:13,20,21; 533:5,6;541:22;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10, 16;438:16;442:1; 515:10,19;516:4,6; 518:12,20;519:16	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46) 339:2;340:1,6; 351:9;369:8;370:6; 382:7;383:3;386:4,	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recipients (2) 378:21;453:14 recognition (3) 352:14;363:1; 414:17 recognize (5) 346:9,11;400:1;	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 464:13;642:5 references (2) 436:9;578:16 referred (3)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8; 396:14;458:1,5; 465:6;507:13,20,21; 533:5,6;541:22; 552:7,12;558:1;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10, 16;438:16;442:1; 515:10,19;516:4,6; 518:12,20;519:16 rate-setting (4)	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46) 339:2;340:1,6; 351:9;369:8;370:6; 382:7;383:3;386:4, 13;387:9;389:15,22;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recipients (2) 378:21;453:14 recognition (3) 352:14;363:1; 414:17 recognize (5) 346:9,11;400:1; 403:2;546:14	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 464:13;642:5 references (2) 436:9;578:16 referred (3) 359:6;363:12;	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8; 396:14;458:1,5; 465:6;507:13,20,21; 533:5,6;541:22; 552:7,12;558:1; 567:6;573:4;578:21;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10, 16;438:16;442:1; 515:10,19;516:4,6; 518:12,20;519:16 rate-setting (4) 511:8;513:15;	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46) 339:2;340:1,6; 351:9;369:8;370:6; 382:7;383:3;386:4, 13;387:9;389:15,22; 401:12,16;416:21,	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recognition (3) 352:14;363:1; 414:17 recognize (5) 346:9,11;400:1; 403:2;546:14 recognized (2)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 464:13;642:5 references (2) 436:9;578:16 referred (3) 359:6;363:12; 506:12	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8; 396:14;458:1,5; 465:6;507:13,20,21; 533:5,6;541:22; 552:7,12;558:1; 567:6;573:4;578:21; 579:10;590:1;591:5;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10, 16;438:16;442:1; 515:10,19;516:4,6; 518:12,20;519:16 rate-setting (4) 511:8;513:15; 515:5;519:12	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46) 339:2;340:1,6; 351:9;369:8;370:6; 382:7;383:3;386:4, 13;387:9;389:15,22; 401:12,16;416:21, 21;418:4;429:14;	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recognition (3) 352:14;363:1; 414:17 recognize (5) 346:9,11;400:1; 403:2;546:14 recognized (2) 553:11;584:18	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 464:13;642:5 references (2) 436:9;578:16 referred (3) 359:6;363:12; 506:12 referring (2)	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8; 396:14;458:1,5; 465:6;507:13,20,21; 533:5,6;541:22; 552:7,12;558:1; 567:6;573:4;578:21; 579:10;590:1;591:5; 613:7,10,11,12,14;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10, 16;438:16;442:1; 515:10,19;516:4,6; 518:12,20;519:16 rate-setting (4) 511:8;513:15; 515:5;519:12 rather (10)	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46) 339:2;340:1,6; 351:9;369:8;370:6; 382:7;383:3;386:4, 13;387:9;389:15,22; 401:12,16;416:21, 21;418:4;429:14; 433:14;438:12,13,	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recognition (3) 352:14;363:1; 414:17 recognize (5) 346:9,11;400:1; 403:2;546:14 recognized (2) 553:11;584:18 recognizing (2)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 464:13;642:5 references (2) 436:9;578:16 referred (3) 359:6;363:12; 506:12 referring (2) 405:20;448:4	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8; 396:14;458:1,5; 465:6;507:13,20,21; 533:5,6;541:22; 552:7,12;558:1; 567:6;573:4;578:21; 579:10;590:1;591:5; 613:7,10,11,12,14; 621:11,12,15,16;
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10, 16;438:16;442:1; 515:10,19;516:4,6; 518:12,20;519:16 rate-setting (4) 511:8;513:15; 515:5;519:12 rather (10) 372:8;374:1,3;	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46) 339:2;340:1,6; 351:9;369:8;370:6; 382:7;383:3;386:4, 13;387:9;389:15,22; 401:12,16;416:21, 21;418:4;429:14; 433:14;438:12,13, 14;439:10;442:9,15,	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recognition (3) 352:14;363:1; 414:17 recognize (5) 346:9,11;400:1; 403:2;546:14 recognized (2) 553:11;584:18 recognizing (2) 402:8;609:11	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 436:9;578:16 referred (3) 359:6;363:12; 506:12 referring (2) 405:20;448:4 refining (1)	$\begin{array}{c} 338:12\\ \textbf{regulate (1)}\\ 624:22\\ \textbf{regulated (2)}\\ 383:14;445:1\\ \textbf{regulating (1)}\\ 637:5\\ \textbf{regulation (23)}\\ 371:14;424:2;\\ 444:22;462:4,5,10;\\ 482:6;507:3;531:4;\\ 559:8,12;563:20;\\ 566:19;567:5;\\ 571:13;580:20;\\ 586:1;587:10;\\ 609:15;627:8;636:1;\\ 639:10,11\\ \textbf{regulations (51)}\\ 373:18;374:9;\\ 382:16;389:8;395:8;\\ 396:14;458:1,5;\\ 465:6;507:13,20,21;\\ 533:5,6;541:22;\\ 552:7,12;558:1;\\ 567:6;573:4;578:21;\\ 579:10;590:1;591:5;\\ 613:7,10,11,12,14;\\ 621:11,12,15,16;\\ 622:1,1,2,3,6,9,21;\\ \end{array}$
497:13 ranking (1) 492:2 rapidly (1) 414:21 rash (1) 506:21 rate (21) 364:13,16,18; 449:17,22;462:14, 19;514:4,10;516:8, 11;517:2,16,18,21; 518:2,9;519:20,22; 554:12;580:19 rate-making (3) 554:9;609:18,19 Ratepayer (4) 512:7;516:2,13; 517:9 rates (13) 394:21;395:4,10, 16;438:16;442:1; 515:10,19;516:4,6; 518:12,20;519:16 rate-setting (4) 511:8;513:15; 515:5;519:12 rather (10)	452:5 ready (3) 337:16;390:13; 482:21 real (11) 384:3;398:22; 399:11;433:17; 434:11,14;435:3; 452:19;459:5; 476:16;633:20 realistic (1) 474:4 reality (2) 402:16;618:15 realization (2) 381:21;382:3 realized (1) 550:16 realizing (1) 387:12 really (46) 339:2;340:1,6; 351:9;369:8;370:6; 382:7;383:3;386:4, 13;387:9;389:15,22; 401:12,16;416:21, 21;418:4;429:14; 433:14;438:12,13,	463:21;511:3;542:8 receiving (5) 393:5;417:9,19; 457:6;463:17 recent (5) 458:3;511:1; 607:4,7;632:18 recently (7) 391:8;399:19; 440:21;458:14; 555:20;589:20; 604:16 receptive (1) 417:11 RECESS (3) 404:5;477:22; 560:14 recognition (3) 352:14;363:1; 414:17 recognize (5) 346:9,11;400:1; 403:2;546:14 recognized (2) 553:11;584:18 recognizing (2)	616:14,15;628:21; 632:1;643:9,11 recover (1) 611:11 redirect (1) 514:17 reduce (4) 525:1;551:2,3; 600:10 reducing (1) 521:18 reduction (1) 521:22 reentry (1) 398:14 refer (2) 517:12;635:2 reference (2) 364:19;444:17 referenced (2) 464:13;642:5 references (2) 436:9;578:16 referred (3) 359:6;363:12; 506:12 referring (2) 405:20;448:4	338:12 regulate (1) 624:22 regulated (2) 383:14;445:1 regulating (1) 637:5 regulation (23) 371:14;424:2; 444:22;462:4,5,10; 482:6;507:3;531:4; 559:8,12;563:20; 566:19;567:5; 571:13;580:20; 586:1;587:10; 609:15;627:8;636:1; 639:10,11 regulations (51) 373:18;374:9; 382:16;389:8;395:8; 396:14;458:1,5; 465:6;507:13,20,21; 533:5,6;541:22; 552:7,12;558:1; 567:6;573:4;578:21; 579:10;590:1;591:5; 613:7,10,11,12,14; 621:11,12,15,16;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (29) quote - regulations

22;635:6;636:6; 638:19 regulator (10) 393:11,12,13; 594:14:601:16: 602:13:603:1; 635:12;638:17,17 regulators (15) 372:3;383:14,18; 401:1:413:16:427:1; 550;7;556;12;567;9; 587:7,11;588:9; 589:16;611:3;626:18 regulator's (2) 594:22:631:12 regulatory (13) 403:1:425:18: 428:19:430:16: 481:11.14:553:5: 566:14:588:11; 593:2;597:13; 626:10:639:9 rehabilitation (1) 599:5 reimbursable (1) 625:15 reimbursed (1) 625:21 reinforce (1) 459:1 related (2) 484:4:487:8 relates (3) 363:20;426:13; 538:8 relations (1) 359:9 relationship (3) 405:9;613:15; 626:2 relationships (3) 353:3:365:22; 570:14 relative (3) 424:2:548:20; 613:11 relatively (4) 371:12:399:18: 549:4:598:5 release (1) 458:11 released (1) 371:15 relevant (1) 360:1 **Reliability (3)** 516:7;519:2;615:9 reliable (2) 385:7:387:4 relocation (1) 530:8 rely (5) 492:11;504:17;

509:8:533:11:616:13 relying (2) 470:11:628:22 remain (1) 539:13 remark (1) 538:16 remediated (1) 487:17 Remediation (1) 484:22 remember (4) 390:8:449:19: 505:13;593:5 reminded (1) 437:14 reminding (2) 458:15:612:15 remote (4) 402:9;410:1; 550:10:565:16 remotely (3) 566:2;605:14,18 remove (2) 597:1:611:22 removed (1) 598:8 removing (1) 380:22 repair (2) 562:9:599:4 repairs (3) 396:8,8:572:9 repeat (2) 456:4:558:16 repetitive (1) 633:3 replace (3) 427:9;599:21; 607:19 replaced (3) 575:20:610:10,11 replacement (9) 520:3;599:6; 600:16;609:10,14, 14,22;610:3;611:18 replacing (2) 608:11:612:3 replicate (1) 427:6 reply (3) 450:21;453:7; 454:2 report (14) 390:5;429:13; 435:6;484:8;493:18; 494:12;509:10,14; 581:20:594:9:607:2, 10:608:9:640:19 reportable (2) 551:2.6 reported (1) 505:22

reporting (3) 440:7:574:18: 622:21 reports (10) 408:16.22:409:2: 493:2,4,6,10;494:21; 584:13,19 represent (5) 335:11;355:19; 396:10:506:13,16 representative (2) 349:3;450:8 **Representatives (7)** 337:8;482:18; 506:9,12;570:5; 589:2:622:19 represented (1) 413:14 representing (6) 364:19:371:5; 379:10:407:2: 437:10:482:17 represents (3) 335:17;361:18; 430:8 requalifying (1) 599:3 request (1) 514:14 requested (1) 619:3 requests (3) 352:2,4;643:18 require (12) 372:22;378:6,10; 458:1;502:17;533:9; 534:8;604:21;605:5, 13;610:12;627:3 required (15) 378:4;394:13; 395:14;458:5; 461:16:487:6: 493:12,20;579:19; 580:4;608:4;619:13; 627:11:629:22:630:7 requirement (15) 444:12,12;445:2,5; 459:2:486:21: 499:17;501:4; 515:19;532:15; 536:11:565:15; 578:21;580:7;594:16 requirements (12) 371:9,11;378:10; 391:19;394:8; 424:10:436:1; 444:20;458:7;501:8; 574:18:587:9 requires (8) 373:3:532:17: 566:19.20:567:5: 579:11:593:1:636:10 requiring (5)

487:2:504:11; 533:18:600:15.16 research (8) 336:1:388:22: 389:4:450:4:523:16: 524:12:545:5:577:20 reset (1) 526:17 residence (1) 362:9 residences (1) 446:8 residential (1) 343:10 residents (3) 398:16.18:429:19 residual (3) 447:11.16:448:4 resolution (2) 570:7,10 resolve (2) 515:15:539:8 resolved (3) 539:20:621:1,3 resort (1) 583:19 resource (3) 391:13:549:3: 630:22 resources (20) 407:21;420:15; 427:5;497:14;501:9; 503:2;504:22;546:4; 549:2,21;550:11,18; 551:1;552:18;554:3; 567:1;624:2;626:4; 631:20;633:6 respect (21) 342:22;348:7; 359:18;361:7;365:9; 367:18;369:15; 381:6;396:21; 441:10;452:11; 453:16;462:10; 465:1;480:3;509:7; 510:10;549:1;566:1; 619:17;629:21 respond (8) 352:10;365:1; 378:2;452:14; 458:12:488:14: 528:13:585:12 responded (2) 403:14;542:8 responder (9) 367:9:368:18; 399:3;415:9;433:10; 439:11;467:20; 471:7:474:8 responders (33) 350:21:351:12: 352:9:355:11: 357:11;366:12;

370:11:373:15; 408:14:413:17; 414:21;415:19; 421:13:423:8,10; 426:15.22:436:19: 437:10;439:20; 443:16.22;456:1.8; 458:2.6.10.17:459:3: 469:15,15;471:8,14 responding (10) 338:18:344:12 347:1;369:5;418:11; 428:12:452:2; 463:20;542:11; 617:12 response (61) 345:21;347:1; 348:8:353:14:355:5: 358:20:359:2: 361:12;363:2;364:8, 10.13.15.18:367:22: 370:14:377:10; 394:21:395:3.16: 400:2,21;407:19; 408:1:409:6:413:1. 14:418:17:419:12: 433:22;437:12; 438:16:443:22: 445:20;449:17,22; 454:16:458:2.8: 462:13,19;463:9,19; 464:2;466:16;468:2, 15,21;469:3,7;477:8; 484:10,11,12; 488:10,11,12;494:8; 540:20:601:6:642:6 responses (14) 365:1,6;379:3; 395:10;442:14; 451:5;452:7,19; 453:6,13;457:16; 463:20;464:1;602:21 responsibilities (13) 334:9:393:13: 458:17:479:16; 483:6;511:7;513:16, 17:515:5,7,15: 519:13:617:13 responsibility (16) 355:10;431:14; 433:7,14,17,19; 434:5;458:9,16; 472:9;481:22;516:3; 561:14,17;631:12,14 responsible (4) 436:19:450:13; 486:2;555:2 responsive (2) 488:8.10 rest (5) 388:9:501:7: 526:9:562:10:611:4

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (30) regulator - restate

restate (2)

March 2, 2011

PG&E Gas Transmissio	on Pipeline - DAY 2		1	March 2, 2011
556:16;564:15	360:10,18;361:1,6,9,	614:15,15;619:15;	rolled (2)	338:9,12,13;
restrictive (2)	14,20;362:19;	623:5;627:19,20;	347:3:552:6	341:16:387:3:
591:22;622:22	363:14,17;364:4,6,	629:6;631:6;633:5,9	rolling (1)	404:14;437:14;
restructuring (2)	12,15;365:2,13,20;	right-of-way (3)	349:6	438:7;439:4;441:18;
519:18,20	366:8;367:6,17,20;	475:12:476:9.15	rookie (1)	442:15;529:20;
result (3)	368:20;369:18;	rights-of-way (1)	339:10	540:5;548:16;
428:1;528:6;584:1	370:8,13,19;402:4,5;	400:10	room (4)	551:21:567:22
results (15)	418:7,14;419:19;	rise (1)	428:16;552:8;	running (14)
393:19;394:12,17,	421:4;422:17,17,21;	333:17	564:6,17	343:16:362:4;
18;416:21;505:19,	423:4;435:18,21;	risk (24)	Rosekind (31)	386:7;476:9;518:15;
20;551:5;552:22;	436:3,5,8,13,22;	484:20;487:12;	437:5,6;438:2,7,	525:6,6,17;526:13;
553:6;600:13;	449:8,20;450:1;	488:20;489:2;	11;440:17;441:21;	529:18;541:3;
610:13;627:17;	452:17;454:21;	491:10,20;492:9;	442:7;443:20;444:6;	549:16;568:12;
630:3;632:21	455:6,11;456:3,9,15;	504:10;505:22;	467:15,16,19;	605:22
resume (2)	457:4;462:14;463:3,	521:5;523:18,19;	468:22;469:11;	runs (3)
404:4,7	5,13,22;464:9;	550:19;551:10,15;	477:3;581:12,13;	475:1,21;476:7
return (1)	465:22;470:7,18;	566:22;598:21;	582:9;583:9;585:1,4;	ruptured (3)
454:4	473:19;474:3,5;	602:4;612:2;623:18;	586:12;587:19;	409:22;456:22;
returned (1)	477:15	626:7;629:22;630:2;	588:5;618:5,6;619:9;	565:13
451:1	rhetorical (1)	642:20	620:11,14;621:18	rural (2)
revealed (1)	458:20	riskiest (1)	Rosekind's (1)	429:15,18
629:20	rhetorically (1)	492:3	601:7	
revealing (1)	462:13	risks (15)	roughly (4)	S
504:3	Rich (1)	362:18;379:14,15;	410:2;624:16,22;	6 (0)
revenue (1)	542:10	491:16;505:1;532:7,	625:3	safe (8)
515:19 revenues (3)	RICHARD (57)	9;553:2;561:19,22; 567:2,3;575:9;	round (1) 600:22	385:4,7;387:3;
516:5;518:1;520:2	478:17;479:9,20, 21;483:9;500:8;	603:11;633:6	routine (1)	388:10;465:4;549:4, 5;598:5
review (34)	508:19;509:16;	RMP1 (1)	338:19	safely (1)
391:18,20;392:2;	510:2,5,12,21;511:2,	491:11	routinely (1)	338:18
394:13,14;424:13;	14,19;512:17,22;	RNP6 (1)	342:15	safer (2)
450:17,18;484:10;	513:6,12,22;514:6;	642:21	RP (1)	441:6;633:8
486:6;487:5,12,13;	515:1;520:21;	road (3)	371:15	safest (2)
495:12,13,19;	524:13,17;527:6,18;	534:2;581:8;	RP1162 (3)	387:5;388:4
505:16,17;506:3;	530:21;534:9;549:2;	587:14	371:22;372:15;	safety (119)
510:5;516:6;521:17;	553:22;565:18;	robbing (1)	449:9	335:12,15;336:4,6,
535:2;536:6;541:12,	566:5;588:20;	547:3	RSVs (1)	13;337:5,8;339:9,12;
16;603:6;608:17;	589:11;593:16;	Robertson (45)	606:11	350:8,10;359:12;
614:12,13;629:8;	595:4;596:21;605:9;	333:15;334:2;	RT (1)	363:7;372:4;373:18;
631:22;632:7,8	606:4;609:16;	336:22;337:1,2;	522:10	382:22;383:1,4,17,
reviewed (2)	613:16;614:12,20;	390:14,16,22;	rule (12)	21;385:9,10;386:16;
424:10;534:21	615:1,4,7,17;616:1,	391:17;392:10,14,	386:20,21;488:16;	387:5,8;388:7,16;
reviewing (9)	20;618:4,15;619:17;	19;393:7,17;394:20;	528:20;533:17;	419:22;428:19;
418:22;484:4;	620:13;621:2;624:9;	395:13,21;396:19;	569:9,9;575:22;	443:7;451:12;465:6,
488:11;489:18;	635:9 Di as (1)	397:3,6,15,18;398:1;	576:4;587:16,21;	15;479:18,22;
497:20;516:10,14;	Rico (1) 506:14	402:21,22;423:5,11,	634:5	480:16,18;481:8,9;
535:22;625:18 reviews (5)	right (52)	21;424:3;441:9; 444:9,16;445:3,7;	rule-making (12) 509:19;554:8,18;	482:14,18;498:17; 500:17;506:9,11,16,
489:11;504:8;	347:4;349:10;	452:11;457:21;	565:20;605:1,12;	17,18;511:10,18;
506:4;544:19;607:8	356:6;363:9;365:8,	458:4;460:20;461:8;	606:6;607:5,12;	512:13,15;513:4,9,
revised (2)	17;368:8;379:5;	464:10,21;465:1;	608:3,5;610:13	17;515:7,13;516:7,
395:8;490:18	393:1;398:19;410:8;	471:21;472:3;473:4	rule-makings (2)	20;517:12;519:2,13;
revision (2)	414:6;421:18;442:5,	robust (3)	512:4;569:12	528:4;533:6;540:14,
367:5;399:22	22;443:1,16,17;	504:9;554:5;	rules (20)	15,15;541:12,13,17,
revisions (1)	450:16;452:17;	621:15	487:2;532:20;	22;542:3;544:10;
536:17	473:9,10,10;478:11,	rocky (1)	554:10;565:22;	545:14,20;546:3,13;
revisit (4)	15;492:15;496:11;	570:13	571:12;573:22;	547:6;549:19;
522:18;534:3;	497:17;514:16;	role (6)	575:12,13,14;576:2;	552:22;553:8;554:4,
605:4;641:16	521:1;524:3;538:6;	372:8;396:4;	585:7;604:22;	12,15;555:2;557:22;
Rezendez (77)	543:22;546:6;571:4;	427:4;509:15,16;	609:13;613:21;	559:5;562:7;567:11,
333:14;334:1;	572:20;574:20;	638:1	614:1,2,4;634:17;	20;569:5;570:5;
336:10,11,12;358:2,	577:2;580:12;	roles (1)	637:3,20	582:15,19;583:1,13,
5,6,14;359:22;	585:17;588:4;597:4;	403:3	run (16)	15;584:1;589:2;
	1	1	1	1

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (31) restrictive - safety

340:13,18;342:1;

PG&E Gas Transmissio	n Pipeline - DAY 2	
596:1;609:19;	375:6,17;382:19,20;	43
613:21;615:8,9,10,	383:19;384:11;	se (1
10,13,14,14;616:4;	385:13;386:9;388:17	34
622:19;623:7;624:8;	satisfaction (1)	sean
625:7;626:18;	539:8	52
636:18;638:15,22;	save (1)	52
640:1	520:1	57
safety-related (1)	saw (8)	63
362:22 salaries (1)	405:6,7;407:10; 409:10;471:22;	sean 52
547:5	475:5;530:2;607:3	8,
Salas's (1)	saying (9)	seat
604:7	353:9;433:2,3;	44
same (20)	448:1;477:4;525:15;	seat
351:19;352:7;	558:7;587:3;605:4	33
375:7,10;409:9,11;	SCADA (3)	4
441:18;490:14;	470:5,9,15	seat
497:20;503:12; 524:10;547:17;	scalable (1) 364:19	4(seco
548:20;572:17;	scale (6)	3
583:2;588:8;589:12,	422:16,18;423:2;	42
15;597:2;606:10	450:9;464:11;471:2	44
sample (2)	scaled (1)	5
364:19;450:9	464:14	63
sampling (3)	scenario (2)	seco
379:5;395:15;	439:7;446:19	30
497:13 San (59)	scenario-based (3) 339:15;342:2;	5 seco
333:6;334:11,14,	359:3	3
15,19;338:1,4;	scenarios (4)	42
341:14,15;343:1,10,	342:6;350:19;	secti
16;347:7;358:12;	352:19;430:22	4
361:3,16;369:14;	scene (9)	53
370:2;397:14;	406:14;407:5,22;	secti
398:14;400:11;	429:9;444:1;447:14;	49
402:16;407:16; 409:22;410:10;	448:6;474:8;577:21 schedule (3)	secu 3(
413:8;417:12;	477:16;495:4;	secu
422:13;426:6;	600:21	3
428:21;431:20;	scheme (3)	4
432:1;433:4;437:8;	617:2,3;639:9	40
442:14;455:3,6;	school (1)	seei
456:18;458:21;	386:20	42
460:6;467:22;	Science (3)	58
469:17,17;471:3; 480:7;502:19;	336:17;480:8; 481:2	64 seek
538:18;539:5;557:5;	scope (1)	35
560:17;561:8;	626:10	43
576:10,16;577:5,15;	score (16)	seen
605:21;609:7;	511:4;542:2,11,11,	31
615:11;618:18	15,16;543:3,19,19;	5
sanctions (1)	544:1,4;545:2,16;	seen
633:12 Sanzo (41)	582:5;584:11,12 scorecard (2)	30
337:17,19,21;	586:16;618:10	6
338:8,16;339:5,19;	scores (8)	sees
340:11,16;341:9,13,	542:4,8;545:20;	54
18;342:8,18;350:6;	582:6,8,16;584:9,10	segn
351:13,17,21;352:8;	scoring (3)	58
353:4,12,19;354:10;	542:1;545:1;582:2	62
355:14;370:22;	scour (1)	segn
371:7,20;372:13,18;	632:1 sereens (1)	49 sois
373:6,14;374:7;	screens (1)	seisi

38:20 (1) 47:22 m (10) 23:12.20:524:6: 28:3:560:5:576:20; 79:5:580:17:581:3; 30:3 ms (10) 28:21:529:5,8,8, ,11,13,14,17;598:15 t (1) 43:7 ted (3) 33:15:478:10; 79:6 ts (2) 04:7:560:16 ond (10) 65:19;415:4,5; 28:12;443:20; 44:5:477:18: 17:10;532:22; 37:11 ondly (4) 66:6:427:18; 11:10;616:10 onds (3) 76:20;412:22; 27:13 tion (5) 17:22;479:18; 30:7:565:14:642:1 tions (1) 95:19 ure (2) 60:11;471:17 urity (7) 76:18;410:21,22; 19:22;460:12,14; 64:12 ing (6) 21:18;472:8,22; 83:22:617:13: 43:18 k (3) 55:11;431:15; 32:10 m (3) 79:13;439:2; 15:6 ms (7) 76:7;384:3; 91:7;528:3;593:8; 02:16:603:1 s (1) 49:15 ment (3) 80:22:628:16: 29:11 ments (3) 91:5;492:3;610:9 seismic (1)

642:10 selecting (1) 491:12 self-assessment (10) 376:1;377:10,14; 393:10,11:486:14: 487:8,20;488:4; 586:19 self-evaluation (1) 510:11 self-selected (1) 452:2 self-transport (1) 446:4 self-transports (1) 446:4 seminar (1) 419:18 seminars (1) 418:12 Sempra (1) 503:13 send (8) 352:3,4;364:21; 457:15;488:10; 538:7,9;585:17 sending (3) 368:4;433:1; 625:17 Senior (6) 335:15:336:12: 348:14;479:14; 482:5:568:11 sense (9) 352:11;376:13; 436:18,20;539:4; 576:9;579:6;582:9; 619:14 sent (5) 340:22;362:20; 393:22;424:13; 585:11 separate (2) 361:19:502:18 September (14) 337:22;341:10; 342:4,9;358:13; 362:16;367:16; 370:5;398:13; 409:22;437:12; 467:21:469:1.6 sequentially (1) 491:17 serious (1) 452:14 seriously (2) 388:13;403:14 serve (2) 343:2:553:17 served (1) 337:7 Service (28) 334:12;335:3;

348:22:349:5:351:3: 353:6,9,11,21; 354:12:355:11: 356:19:357:10: 370:15;372:13; 380:5;414:10; 419:20:427:19; 468:11:474:2; 477:19;595:19; 599:16:640:21 serviced (1) 338:4 services (6) 334:15:395:19; 398:12:408:2: 418:19:518:11 servicing (1) 344:6 session (8) 356:9:406:8: 415:1:454:22:478:1: 641:17,18,19 sessions (4) 351:1:352:6: 425:22;547:13 set (11) 379:2;383:15,17; 448:16;457:5,8; 507:21;588:3; 613:17:619:12; 641:19 sets (4) 351:13,17;528:15, 21 setting (3) 518:19;529:3; 605:6 settle (1) 476:11 settlement (1) 383:16 seven (6) 350:10;386:22; 415:2;498:21; 519:21:559:19 several (7) 337:6;349:12; 392:12;515:19; 541:22;559:15; 600:10 severe (1) 550:2 severity (1) 634:9 sewer (3) 404:14,15,19 shall (1) 373:1 shape (1) 563:1 share (9) 418:13;425:12,17;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (32) safety-related - share

PG&E Gas Transmissio	n Pipeline - DAY 2	1	1	Warch 2, 2011
551:17;553:13;	sign (1)	515:14;517:16	377:4;518:17;	412:2,11
	510:7			,
568:4;590:16;		solicit (2)	576:13	speculating (1)
628:10;632:15	significant (3)	369:6;413:12	source (6)	412:3
shared (4)	388:11;502:13;	solid (1)	357:7;449:2;	speculation (2)
433:14,19,22;	569:12	369:8	465:3,3;473:10;	411:4;413:4
434:5	similar (5)	solution (4)	611:20	speed (5)
sharing (2)	456:21;504:7;	402:12;570:6;	sources (9)	468:20;547:1;
403:12;555:13	522:13;594:9;628:20	584:20;610:13	339:5,7;340:9,20;	552:14;579:15;580:1
shed (1)	similarly (1)	solutions (2)	345:4;354:15;	Spencer (1)
412:19	456:11	567:7;607:16	387:18;394:2;455:10	528:10
sheets (5)	simple (2)	somebody (4)	south (2)	spend (4)
496:5,9,13;498:3;	558:7;586:2	464:18;468:19;	334:14;502:19	537:2;548:15;
556:20	simply (7)	630:8;634:21	Southern (1)	554:20;631:21
sheriff (1)	379:4;535:3;	somebody's (1)	483:4	spends (1)
429:21	607:17;616:13;	583:10	speak (14)	589:6
shore (1)	625:1;628:1;634:2	someone (7)	399:8;402:20;	spent (1)
546:13	single (1)	388:13;437:8;	411:18;427:2;431:5;	596:4
short (5)	497:15	451:8;470:11;	453:5;495:8;498:10;	split (2)
404:1;477:16;		558:15,20;576:11	519:17;522:21;	497:20,22
530:7;579:2;587:17	sit (3)			
	416:17;575:17;	something's (2)	528:12;559:19;	spoke (1)
short-lived (1)	612:22	442:8;630:14	626:22;634:1	469:14
568:5	site (3)	Sometimes (10)	speaking (5)	sponsored (1)
Shortly (2)	409:4;421:22;	376:17;384:18;	402:19;431:2;	368:21
455:6;569:16	469:20	468:5;506:12;	496:12;514:8;526:19	spot (2)
short-term (1)	sits (1)	549:21;567:7;	speaks (2)	422:3;497:10
588:1	368:5	587:11;607:16;	453:4;584:21	spread (1)
shoulder (1)	situate (1)	614:16;638:6	special (1)	624:18
616:6	410:14	somewhat (2)	445:7	spring (2)
shoulders (1)	situation (15)	400:11;577:19	specialize (1)	361:10;369:3
631:4	342:3;380:2;	somewhere (3)	615:13	square (2)
show (3)	400:16;411:13;	364:18;512:10;	specialized (1)	343:5,7
467:10;580:5;	427:15;471:6;539:5;	543:4	366:22	stable (2)
643:11	550:7;557:11;561:7,	Soon (2)	specialty (1)	529:9;598:11
showing (5)	11,20;577:15;615:8;	349:2;605:20	457:14	staff (14)
360:16;361:4;	628:20	sooner (1)	specific (34)	347:3;348:11;
455:2;567:11;627:17	situations (1)	387:17	343:20;344:13;	420:7;428:13;
shown (3)	609:22	sorry (18)	347:22;350:16;	509:13,21;512:5;
439:15;610:9;	six (1)	340:14;364:12;	352:8;359:19;	516:18;539:7,17;
634:11	631:21	377:5;424:22;428:2;	362:17;365:20;	541:2;546:9,10;
shows (7)	size (2)	448:3;456:3;486:12;	367:17;369:12,13;	583:19
409:14;410:15,16;	446:20;630:4	491:21;510:16;	370:11;373:1;	staffing (1)
423:3;440:2;451:20;	sizes (1)	512:6;517:12;	384:15;398:3;	510:14
522:11	420:12	518:14;527:17;	401:10;411:19;	staffs (1)
shut (7)	skills (1)	574:13;587:20;	426:2;438:21;457:2;	552:11
376:20;377:2;	552:18	610:18;614:15	465:2,7;477:13;	stage (2)
409:17;447:11,16;	slated (1)	sort (18)	504:21;531:15;	597:5;641:19
448:10;449:1	369:3	380:16;400:16;	537:8,9;538:1;	staged (1)
shutoff (3)	slide (1)	401:6;462:19;	579:10;597:3;603:7,	617:3
565:15;566:2;	421:6	485:16;493:13;	19;617:21;641:22	stages (1)
605:14	small (5)	524:15;526:11;	specifically (15)	392:1
side (18)	349:20;384:10;	555:11;581:22;	347:17,18;373:20;	stakeholder (6)
340:2,3;347:12;	552:11;595:13;	582:4,12;585:7;	422:4;423:22;	368:22;382:12;
400:6;414:7;439:10,	619:11	595:21;609:21;	495:18;508:12;	394:6,22;403:6;
17;440:4;471:2;	smell (4)	616:17;620:16,18	519:10,17;558:2;	473:17
473:3;604:17,18;	386:18;439:17;	sorts (2)	562:19;596:18;	stakeholders (7)
610:2;615:13;617:5,	441:15,17	620:5;636:17	601:13;642:4;643:1	337:11;371:20;
6;624:11;634:3	society (1)	sought (2)	specified (2)	427:1;436:12;
side-by-side (1)	402:14	377:13;432:13	371:9;536:12	540:11,22;607:9
632:14	sociology (1)	sound (1)	specify (2)	stand (3)
sides (2)	480:8	633:3	505:10;531:5	456:17;634:14;
377:1;500:11	software (1)	sounded (1)	specs (1)	635:13
sidewalks (1)	359:14	525:16	591:8	standard (6)
349:21	sole (2)	SOUNDS (3)	speculate (2)	372:19;391:4;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (33) shared - standard

424:20:425:4:

622:17

438:15:585:11.14:

	1
461:5;462:11;	
542:22;582:11	
standards (4)	
376:3;436:7;	
544:10;613:18	
standards-driven (1) 373:2	
standing (1)	
478:11	
Stanford (1)	
336:20	·
start (11)	
389:13;398:9;	
445:12;479:12;	
483:14;507:16;	sta
508:7;520:15;	sia
556:15;588:9;639:14 started (8)	Sta
368:14:418:9;	ອເຊ
438:19;481:14,16;	sta
527:20;581:18;	
593:14	sta
starting (1)	
334:6	sta
state (94)	
334:7,18,19;335:1,	sta
2;337:4;350:15;	
351:1;355:21,22;	sta
372:3,4,4,7;392:10;	
407:16;415:16;	
426:22;430:9,15,17,	sta
21;431:9;434:11;	4
435:8,8;440:19;	sta
441:1;478:5;479:7;	
480:7;481:12,21;	
482:1;483:15;	sta
490:19;500:16;	
503:18;504:3;505:5,	
16,18;506:3;511:9,	sta
11;519:8;540:1,4,14;	:
541:3;543:6;545:3;	sta
546:1,8;547:6,12,18;	
548:1,4,7;549:1,7;	sta
553:5;554:6,16;	4
558:2;569:5;581:14,	sta
22;582:7,12,22;	:
583:16,20;584:8,15;	ste
586:14;589:3;603:9;	:
611:4,16;613:9,12;	(
614:3,10;618:8;	ste
619:11;620:19;	4
621:6,10;624:22;	Ste
631:2;639:1,21	
state-by-state (3)	sti
426:21;427:7;	
435:9	sti
stated (4)	
402:15;538:14;	sti
573:1;577:13	
statement (5)	sti
1110-5-121-17-	i '

428:5:431:17:

States (49)

Min-U-Script®

432:9:506:21:604:8

350:13:351:2: 447:9,11:459:21; 506:14,17:541:17; 488:11:533:22; 542:4;545:13,15; 534:4;535:21; 559:14:579:15 546:7,8,12,13,20,21; 548:2.14.18:550:1: stillers (1) 551:15,18;552:11, 377:17 14,20;559:8;569:18; stop (4) 570:8:583:13; 558:12:584:10,11; 588:13;589:5,6; 586:13 594:9;606:12;611:9, stopped (2) 15,17,21;621;14,22; 447:6,8 622:9,16,20;623:7; stopping (1) 626:3,5,6;632:15; 420:8 640:2,3,11 storage (2) ate's (4) 518:5,6 504:22;583:20; story (1) 625:16:632:8 444:1 ates' (2) straight (1) 567:20:613:11 607:5 strained (1) ating (1) 388:3 570:14 ation (1) strapped (2) 583:3 584:19.20 atistic (1) strategy (2) 409:9;612:2 639:22 atistical (1) street (6) 373:4 349:14:355:9; atistically (4) 376:2,3;377:11; 475:2 395:15 strengthened (1) atistician (1) 576:3 450:6 strengthening (2) atistics (5) 489:8:538:3 364:17;377:12,21: stress (2) 527:8:579:12 533:1;624:22 stresses (1) atus (3) 444:14;543:15; 528:6 stretch (2) 600:7 595:10:636:13 atute (2) 527:9:636:15 stretching (1) 599:2 atutory (3) 501:4,7:617:20 strictly (1) 584:9 ay (1) stringent (5) 441:6 ays (1) 621:11,16,22; 579:16 622:2,17 el (3) strong (3) 560:4:611:22: 571:5;572:10; 612:3 573:5 ep (2) stronger (1) 416:7:453:15 634:21 epanian (1) strongly (1) 589:5 575:21 ckers (1) structure (1) 349:20 447:10 cker-type (1) structures (1) 349:20 448:20 cking (1) struggling (1) 475:6 416:4 ill (15) studies (2) 339:15:380:11: 507:8.11 415:22:416:13: study (9) 422:15;440:17; 507:15;508:4;

571:17:572:4; 605:17;606:19; 632:18,19,21 stuff (2) 442:16:470:6 stuffers (2) 363:13.16 subdivision (1) 409:14 subject (2) 458:3;606:10 subjected (1) 444:4 submittal (1) 485:9 submitted (2) 531:14,16 Substation (2) 347:7.8 success (2) 472:17,22 successful (1) 597:19 successfully (1) 604:12 sudden (1) 417:22 374:11:381:8:422:2: suffer (2) 428:21;525:18 suffering (1) 549:10 suggest (3) 573:18:596:15: 634:18 suggested (3) 464:13;561:9; 610:8 suggesting (1) 523:5 suit (1) 532:8 sum (1) 596:11 summarize (1) 358:11 summarizing (1) 390:6 summary (3) 346:20;359:17; 451:4 summer (2) 504:13;612:21 Sumwalt (19) 429:2,3;431:2,13, 19;432:8,16,20; 433:6:434:4:435:1, 12;476:8;576:7,8; 577:4:578:7:579:6; 612:8 Sumwalt's (1) 436:18 superintendent (1) 359:8

479:17 supervisor (1) 512:18 supervisors (3) 511:20;512:16,17 supplemental (1) 444:20 supply (3) 406:11:412:5; 531:19 support (9) 389:1;395:22; 516:9,12;523:17; 583:6;623:9,10; 629:10 supported (2) 583:18:625:9 supposed (3) 616:10,11:627:9 sure (42) 342:16:345:20: 353:17;365:15; 366:8;374:13;410:6; 414:9,22;421:4; 427:18:437:11: 438:18:443:10: 452:10;487:5;495:9, 17;498:9;501:21; 508:17,19;514:1; 516:3:529:21; 535:16,19;538:9; 539:19;540:6;545:6; 549:11;558:19; 561:17;574:22; 575:15;576:3;582:2; 596:7;616:9;629:5; 643:15 Surely (1) 358:14 surety (1) 379:4 surface (2) 513:19:515:6 surprised (1) 552:4 survey (35) 363:18,18,19,22; 364:5,7,8,9;365:3,4, 4;368:21;369:1,2; 394:17:442:1:450:3, 4,7,21,22;453:9,10, 10;463:4,5,18;472:4; 496:5,9,12;498:3; 586:7,21;602:19 surveys (15) 364:11,14,22; 365:11:366:12; 368:21:393:19: 394:5:395:11;

March 2, 2011

supervise (1)

Olender Reporting, Inc. www.OlenderReporting.com (34) standards - surveys

			(10.10	
survival (1)	talk (26)	399:10;402:7;	613:18	throughout (5)
450:14	363:9;381:20;	420:21	tests (2)	337:12;357:19;
survivors (2)	382:5,12;409:15;	technology (7)	532:13,16	484:6;506:18;624:18
445:14;446:1	420:10;421:2;424:3;	354:20,21;415:20;	textbook (1)	throw (2)
suspect (3)	457:22;459:6;	428:19;466:9;	350:19	375:20;476:20
430:10;521:20;	471:21;493:1;	529:16;578:9	Thanks (4)	throws (1)
531:17	520:14;536:3,5;	telling (3)	433:6;540:8;	591:19
suspended (1)	565:22;566:14;	387:6;617:4;629:6	556:5;569:13	thus (1)
546:11	567:14;569:19;	tells (1)	Therefore (2)	600:1
SVUs (1)	571:22;589:4;	444:3	581:9;633:8	tickets (1)
606:11	594:13;611:19;	ten (6)	thinking (8)	441:13
swear (2)	612:22;621:4;640:18	335:9;491:12,18;	380:13;462:15;	tie (1)
333:9;478:6	talked (15)	519:21;631:1,2	563:6;601:13;	356:21
swing (1)	357:4;369:19;	tend (2)	606:11;611:9;	tied (1)
416:14	386:13;420:20;	382:6;417:21	637:14;639:11	542:15
sworn (7)	434:7;451:13;	tenders (1)	third (11)	tight (1)
333:17;334:4;	473:11;492:6;	406:18	333:7;439:5;	377:2
337:16;479:1;	538:12;571:10;	term (1)	487:11,20;488:12,	till (2)
482:21;641:8,13	589:3;596:10;	380:20	14;512:19;537:5,11,	521:2;597:4
symbiotic (1)	601:11;613:7;619:19	terms (26)	15,21	timeframe (4)
626:2	talking (14)	381:1;382:16;	thorough (1)	493:7;531:5;
system (50)	345:3;380:13;	411:8;463:20;	631:17	617:8;627:10
338:4;340:5;	401:21;411:3;448:5;	467:20;501:13;	thoroughly (2)	timely (4)
345:6,13;346:13;	459:11;496:20;	507:3;509:2,3;512:2;	563:16;606:6	470:19;488:17,17;
347:19,22;360:4,5,9,	519:11;552:5;574:6;	546:2;549:9;555:13;	though (6)	617:12
19,22;361:3;369:21;	576:8;578:8;581:18;	563:10;569:15;	380:8;400:7;	times (5)
379:15;380:11,12;	589:6	571:14,22;595:19;	443:9;472:12;508:6;	388:1;520:2;
381:18;391:11;	talks (2)	613:12;614:5;	642:4	571:11;588:16;
407:17;421:10;	450:16;527:1	618:22;619:7;636:8,	thought (10)	638:20
423:6;432:5;440:7;	target (5)	16;638:2,16	338:3;375:19;	time's (1)
452:5;455:12;459:9,	386:13;400:3;	territory (3)	409:4;434:14;435:2,	518:14
16;460:5;464:8;	551:22;555:21;620:1	370:15;419:20;	5;448:3;464:14;	tires (1)
467:1;468:10,11;	targeted (4)	599:16	573:8;574:7	615:22
492:3;498:7;502:4;	384:15;401:10;	Terry (14)	thoughts (6)	title (1)
517:18;545:1;	441:3;524:4	333:13,21;335:14,	380:6;402:17;	334:8
554:13;555:6;	targeting (1)	14;373:9,17;374:10;	414:19;416:8;	today (11)
563:16,17;577:9;	388:20	379:20;381:14;	418:13;574:10	353:5,22;404:11;
594:20;607:14;	team (8)	400:20;417:16;	thousand (1)	420:20;422:22;
609:13;623:8;637:8,	392:11;393:2;	425:11,16;440:5	511:15	427:21;432:5;
19;638:22	477:7;523:5;525:5;	test (22)	thousands (3)	482:10,16;587:15;
systematic (1)	530:6;568:10;631:22	437:16,20,21;	375:13;441:13;	602:19
523:16	teams (2)	439:7;453:8;520:20;	457:9	together (11)
systems (23)	448:8,12	529:7,11,15;533:13;	threat (4)	359:9;381:17;
358:8;359:14,20;	tear-off (2)	534:8;579:7,9,9,14;	491:10;492:8;	426:21;514:9;
360:14,18;380:10;	463:12,19	580:8;591:9;592:17;	565:5;642:8	553:18;555:18;
398:8;524:22;	tech (2)	593:10;599:21;	threats (17)	569:7;579:16;612:9;
538:13;544:10,13,	600:22;641:2	616:4;620:9	484:19;491:12;	623:16,19
14,16,21;549:14,14;	Technical (18)	test-capable (1)	527:1;529:19;532:9;	told (8)
554:5;555:3;565:17;	337:20;395:19,22;	521:12	561:19,22;564:1;	343:16;388:9;
576:9;596:9;611:5;	403:20,22;418:9;	tested (7)	565:2;568:7,8,9,15;	464:15;470:13;
636:18	428:13;438:13;	496:14;521:4,19;	633:7;641:22;	511:19;556:8,19;
	455:15;516:12;	525:1;533:19;	642:13,18	603:21
Т	558:5;559:1,18;	598:11;603:20	three (11)	tomorrow (6)
	604:9;606:2;609:4;	testified (4)	376:22;383:8;	578:8;595:1,2;
table (3)	624:4;627:13	334:5;387:22;	429:8;451:17;	597:20;641:20;644:1
411:15;479:8;	technically (1)	479:3;641:15	460:13;502:10,11;	Tone (3)
590:15	627:6	testimony (2)	548:9,11;559:14;	402:15;453:3;
tactical (1)	technique (2)	390:17;644:2	571:3	463:15
409:8	454:3;586:7	testing (16)	threshold (2)	took (5)
4 1 4 (4)	techniques (3)	532:6,18;594:11,	395:10;491:19	406:16;407:6;
talent (1)				
547:4	376:4;382:2;	14,19;596:16,20;	thresholds (4)	409:20;495:5;565:13
	376:4;382:2; 454:13 technologies (3)	14,19;596:16,20; 597:4,7,14;598:1,1, 2;599:13;600:15;	thresholds (4) 395:3;571:19; 606:20;619:12	409:20;495:5;565:13 tool (7) 423:7;460:11;

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (35) survival - tool

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	PG&E Gas Transmission	n Pipeline - DAY 2			March 2, 2011
$\begin{array}{llllllllllllllllllllllllllllllllllll$	462.15 17.474.12	344.2.346.18.347.1	transitioned (1)	377.22.385.5.	549.18.565.21.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				· · · · · · · · · · · · · · · · · · ·	
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	598:14,14,18;599:4;		translates (1)	Trust (9)	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	top (6)	428:19;431:11;	Transmission (48)	382:22;383:2,17;	427:14
topic (3) 552:13;655:6582.4, 10,13 433:15;344:16,18, 21:345:16;346.8; 388:7;433:19; 541:365:12 358:18:47448; 388:7;433:19; 541:365:12 388:18:4748; 388:7;433:19; 541:365:12 388:18:4748; 343:15;379; 347:10;405:17,19 359:17;500:17; 359:10;27;370:12; 4452:20;502:20; 339:16;341:4; 4441;1; 484:7 520:11 trainings (3) 359:17;370:12; 4452:20;502:10; 465:20;502:20; 512:12;515:2; 338:16;341:4; 339:16;341:4; 442:16;348:6; 548:13:655:12 342:19;22;434:8, 342:16;343:6; 400:54;408:20; 542:10;22;430:17, 550:15;562:2; 512:12;515:2; 377:19;343:6;591:5; 432:16;348:6; 432:16;348:6; 548:13:655:12 350:14;435:13, 500:14;345:13, 500:14;355:15; 500:20;502:7;910, 374:2380:17, 550:15;50622; 5192:10;526:14; 505:7;50622; 588:15 356:12;22;1357:17, 538:13;555:10 403:10;409:10, 403:10;409:10, 359:13 360:8;152;1;361:2,7, 588:15 536:12;20;351:14;66:3; 350:14;443:7; 538:13;559:8;553:15;506:2; 538:13;559:8;553:15;506:2; 538:13;559:8;553:15;506:2; 538:13;507:8;503;509:7;5506; 401:15;438:5; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:8;531:5;506:2; 538:11;509:12; 538:11;509:8;531:5;506:2; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 538:11;509:12; 5	475:2;491:12,18;	481:12;498:11,22;	335:18;338:6,9;	521:14;629:4;637:17	two-way (4)
	573:13;606:14;628:4				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{l l l l l l l l l l l l l l l l l l l $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					389:13;402:1;417:1;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	towards (7)	367:3,15,18;368:10;	475:8;480:20;590:8;	551:15,20;552:16;	505:3;519:7;550:6;
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			613:20		566:13;597:17;599:4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					495:22;496:21;595:5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
522:14;531:10 395:9,18;396:15,21; trend (3) 635:6 471:6;502:21;539: trackable (1) 397:5,12,17,19; 505:21;520:17; turned (3) 411:20;501:21; 415:11 398:2;399:1,12; 555:18 411:20;501:21; 470:22 tracked (2) 400:19;401:7;402:4, trending (1) 502:1 470:22 377:21;514:15 21;403:18;454:20; 555:20 turning (1) 444:2 371:4;425:12,17 509:13,22;510:3,9, 521:2;551:21; 624:14 426:5 594:4 512:12,20;513:2,10, tried (3) trid (3) twice (1) 426:5 s86:6;437:13; 515:4;517:4,10,14; 459:22 Twitter (1) 426:5 453:14 443:13;458:21 518:14;519:5,12; tries (1) 402:12 453:14 367:8 383:5;426:7; 535:21;536:10,19; trigger (4) 338:8,13;340:22; 368:16;397:15 368:16;397:15 383:5;426:7; 535:21;536:61,1;9; 581:4;607:12 347:9;354:4;355:2; 410:17;446:16 410:17;446:16 381:5;632:13 543:5,22;544:3,6,17; 528:21;529:5; 387:15;393:13; 371:13;522:16; <td></td> <td></td> <td></td> <td></td> <td></td>					
trackable (1)397:5,12,17,19;505:21;520:17;turned (3)typifies (1)415:11398:2;399:1,12;555:18411:20;501:21;470:22tracked (2)400:19;401:7;402:4,555:20turning (1)502:1377:21;514:1521;403:18;454:20;555:20turning (1)Utrade (3)455:8,13;508:10,11;521:2;551:21;turnover (1)ultimate (1)371:4;425:12,17509:13,22;510:3,9,521:2;551:21;turnover (1)444:2371:4;425:12,17509:13,22;510:3,9,521:2;551:21;turnover (1)426:5594:4512:12,20;513:2,10,tried (3)twice (1)ultimate (1)tragedies (4)14;514:2,16,21;345:15;384:19;451:14367:8386:6;437:13;515:4;517:4,10,14;459:22Twitter (1)unacceptable (1)443:13;458:21518:14;519:5,12;tries (1)402:12453:14383:5;426:7;535:21;536:10,19;trigger (4)338:8,13;340:22;368:16;397:15383:5;426:7;535:21;536:10,19;trigger (4)338:8,13;340:22;368:16;397:15442:8;460:6537:1,22;538:6,11;528:22;529:4;343:17;344:15;undamaged (2)351:5;632:13543:5,22;544:3,6,17;581:4;607:12347:9;354:4;355:2;410:17;446:16under (13)22;545:7,11,22;528:21;529:5;387:15;393:13;371:13;522:16;					
415:11398:2;399:1,12;555:18411:20;501:21;470:22tracked (2)400:19;401:7;402:4,trending (1)502:1U377:21;514:1521;403:18;454:20;555:20turning (1)Utrade (3)455:8,13;508:10,11;555:20turning (1)U371:4;425:12,17509:13,22;510:3,9,521:2;551:21;turnover (1)ultimate (1)traditionally (1)18,22;511:5,16;567:11;603:12;620:5624:14426:5594:4512:12,20;513:2,10,tried (3)twice (1)ultimately (1)tragedies (4)14;514:2,16,21;345:15;384:19;451:14367:8386:6;437:13;515:4;517:4,10,14;459:22Twitter (1)unacceptable (1)443:13;458:21518:14;519:5,12;tries (1)402:12453:14tragedy (4)520:5,9;534:11,12;440:8two (46)unaware (2)383:5;426:7;535:21;536:10,19;trigger (4)338:8,13;340:22;368:16;397:15442:8;460:6537:1,22;538:6,11;528:22;529:4;343:17;344:15;undamaged (2)train (2)539:11,15,21;542:7;581:4;607:12347:9;354:4;355:2;410:17;446:16351:5;632:13543:5,22;544:3,6,17,528:21;529:5;387:15;393:13;371:13;522:16;					
tracked (2)400:19;401:7;402:4, 21;403:18;454:20;trending (1)502:1377:21;514:1521;403:18;454:20; 455:8,13;508:10,11;555:20turning (1)371:4;425:12,17509:13,22;510:3,9, 509:13,22;510:3,9,521:2;551:21; 567:11;603:12;620:5turnover (1)traditionally (1)18,22;511:5,16; 512:12,20;513:2,10,567:11;603:12;620:5624:14tragedies (4)14;514:2,16,21; 515:4;517:4,10,14; 443:13;458:21515:4;517:4,10,14; 518:14;519:5,12;451:14367:8386:6;437:13; 383:5;426:7; 442:8;460:6537:1,22;538:6,11; 539:11,15,21;542:7; 539:11,15,21;542:7; 515:4;522;529:4;Twitter (1) 402:12unacceptable (1) 453:1442:8;460:6537:1,22;538:6,11; 539:11,15,21;542:7; 351:5;632:13543:5,22;544:3,6,17, 543:5,22;544:3,6,17, 528:21;529:5;387:15;393:13; 371:13;522:16;					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					4/0.22
trade (3) $455:8,13;508:10,11;$ trends (5) $444:2$ $371:4;425:12,17$ $509:13,22;510:3,9,$ $521:2;551:21;$ $turnover (1)$ $ultimate (1)$ traditionally (1) $18,22;511:5,16;$ $567:11;603:12;620:5$ $624:14$ $426:5$ $594:4$ $512:12,20;513:2,10,$ tried (3)twice (1) $ultimately (1)$ tragedies (4) $14;514:2,16,21;$ $345:15;384:19;$ $451:14$ $367:8$ $386:6;437:13;$ $515:4;517:4,10,14;$ $459:22$ twitter (1) $453:14$ $443:13;458:21$ $518:14;519:5,12;$ tries (1) $402:12$ $453:14$ tragedy (4) $520:5,9;534:11,12;$ $440:8$ two (46)unaware (2) $383:5;426:7;$ $535:21;536:10,19;$ $528:22;529:4;$ $343:17;344:15;$ $368:16;397:15$ $442:8;460:6$ $537:1,22;538:6,11;$ $528:22;529:4;$ $343:17;344:15;$ $undamaged (2)$ $351:5;632:13$ $543:5,22;544:3,6,17,$ $528:21;529:5;$ $387:15;393:13;$ $371:13;522:16;$					TI
$\begin{array}{llllllllllllllllllllllllllllllllllll$					U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					ultimate (1)
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
tragedies (4)14;514:2,16,21;345:15;384:19;451:14367:8386:6;437:13;515:4;517:4,10,14;459:22Twitter (1)unacceptable (1)443:13;458:21518:14;519:5,12;tries (1)402:12453:14tragedy (4)520:5,9;534:11,12;440:8two (46)unaware (2)383:5;426:7;535:21;536:10,19;trigger (4)338:8,13;340:22;368:16;397:15442:8;460:6537:1,22;538:6,11;528:22;529:4;343:17;344:15;undamaged (2)train (2)539:11,15,21;542:7;581:4;607:12347:9;354:4;355:2;410:17;446:16351:5;632:13543:5,22;544:3,6,17,triggers (3)356:13;377:1;383:8;under (13)trained (4)22;545:7,11,22;528:21;529:5;387:15;393:13;371:13;522:16;					
386:6;437:13;515:4;517:4,10,14;459:22Twitter (1)unacceptable (1)443:13;458:21518:14;519:5,12;tries (1)402:12453:14tragedy (4)520:5,9;534:11,12;440:8two (46)unaware (2)383:5;426:7;535:21;536:10,19;trigger (4)338:8,13;340:22;368:16;397:15442:8;460:6537:1,22;538:6,11;528:22;529:4;343:17;344:15;undamaged (2)train (2)539:11,15,21;542:7;581:4;607:12347:9;354:4;355:2;410:17;446:16351:5;632:13543:5,22;544:3,6,17,triggers (3)356:13;377:1;383:8;under (13)trained (4)22;545:7,11,22;528:21;529:5;387:15;393:13;371:13;522:16;	tragedies (4)				
443:13;458:21518:14;519:5,12; 520:5,9;534:11,12;tries (1)402:12453:14tragedy (4)520:5,9;534:11,12; 535:21;536:10,19;440:8two (46)unaware (2)383:5;426:7;535:21;536:10,19; 535:21;536:10,19;trigger (4)338:8,13;340:22; 343:17;344:15;368:16;397:15442:8;460:6537:1,22;538:6,11; 539:11,15,21;542:7;528:22;529:4; 581:4;607:12343:17;344:15; 347:9;354:4;355:2; 347:9;354:4;355:2;undamaged (2)train (2)539:11,15,21;542:7; 543:5,22;544:3,6,17, triggers (3)581:4;607:12 528:21;529:5;345:13;377:1;383:8; 387:15;393:13;under (13) 371:13;522:16;			459:22	Twitter (1)	unacceptable (1)
383:5;426:7; 442:8;460:6535:21;536:10,19; 537:1,22;538:6,11; 539:11,15,21;542:7; 351:5;632:13trigger (4) 539:11,15,21;542:7; 543:5,22;544:3,6,17, 22;545:7,11,22;338:8,13;340:22; 343:17;344:15; 581:4;607:12368:16;397:15 undamaged (2)trained (4)22;545:7,11,22;528:22;529:4; 581:4;607:12343:17;344:15; 347:9;354:4;355:2; 356:13;377:1;383:8; 387:15;393:13;368:16;397:15 undamaged (2)	443:13;458:21		tries (1)	402:12	
442:8;460:6537:1,22;538:6,11;528:22;529:4;343:17;344:15;undamaged (2)train (2)539:11,15,21;542:7;581:4;607:12347:9;354:4;355:2;410:17;446:16351:5;632:13543:5,22;544:3,6,17,triggers (3)356:13;377:1;383:8;under (13)trained (4)22;545:7,11,22;528:21;529:5;387:15;393:13;371:13;522:16;	tragedy (4)		440:8		
train (2)539:11,15,21;542:7;581:4;607:12347:9;354:4;355:2;410:17;446:16351:5;632:13543:5,22;544:3,6,17,triggers (3)356:13;377:1;383:8;under (13)trained (4)22;545:7,11,22;528:21;529:5;387:15;393:13;371:13;522:16;					
351:5;632:13543:5,22;544:3,6,17, 22;545:7,11,22;triggers (3) 528:21;529:5;356:13;377:1;383:8; 387:15;393:13;under (13) 371:13;522:16;					
trained (4) 22;545:7,11,22; 528:21;529:5; 387:15;393:13; 371:13;522:16;					
	-				
	351:2;396:13;	547:16;548:19;	632:8	405:12;413:21;	528:20;532:15;
555:5;632:9 549:22;553:9,20; trip (1) 429:8;437:9;446:4; 549:15;565:5,5; 10:10:10:10:10:10:10:10:10:10:10:10:10:1					
trainer (2) $556:1;601:3;602:11$ $438:9$ $451:12;452:5;$ $571:18;578:20;$ $252:(440:12)$ $16:(02:12:16:04:14)$ $438:9$ $451:12;452:5;$ $571:18;578:20;$					
352:6;449:12 16;603:13,16;604:4 tripped (1) 468:15;472:5;484:9; 579:9;591:4,6; 509:16	-				
trainers (2) Trainor's (1) 630:19 495:7;498:15,19; 598:16 251:2:(40:14 440:7 family (1) moderate (1)					
351:3;640:14 449:7 trouble (1) 500:10;502:9,11; undergo (1) training (53) transformed (1) 546:0 503:12:511:20; 546:0		-			
training (53)transformed (1)546:9503:12;511:20;546:8339:3,4,6,7,11,14,338:21truck (1)512:16,17;515:16;undergoing (1)					
339:3,4,6,7,11,14, 20,21,22;340:1;338:21 transit (1)truck (1) 444:2512:16,17;515:16; 538:10;539:2,13;undergoing (1) 600:11					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
					under Stound (2)

Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com (36) tools - underground

474:12;478:11; Min-U-Script®

Olender Reporting, Inc. www.OlenderReporting.com

(37) underlying - wealth

SB_GT&S_0022277

unrealistic (1) $574:21;579:22;$ $580:16;582:5;$ valuation (1) $590:18;612:7$ $598:4;632:$ way (33)unstable (2) $587:12;604:20;$ $528:22;529:13$ $606:3;617:3,4;620:1;$ $634:10$ $a445:13;446:1,3$ $a44:3;365:$ $399:6;526:5;$ $a45:13;446:1,3$ $a44:3;365:$ $340:21;341:7$ $a56:5;388:$ $a604:13$ $ased (20)$ $556:14,22;557:3,16;$ $556:14,22;557:3,16;$ $a40:21;341:7$ $a86:5;388:$ $a604:13$ unusual (2) $360:13;364:8;$ $560:13;364:8;$ $560:4;566:15;$ $596:17;609:13$ $a66:2;572:2$ $415:10,20;$ $462:16;467unusual (2)366:10;373:15;394:6;420:15;453:8;344:2,3;345:1;394:6;420:15;453:8;492:20;493:2,4,6;a66:2;572:2415:10,20;467:2344:2,3;345:1;383:17;387:9,16;492:20;493:2,4,6;598:16;604:12;556:11;559:15;560:6491:11;507:2559:13;576:42:18;643:5388:13,15,15;615:8;642:18;643:5valves (24)634:10;636:9,10,15589:17;604:15$	March 2, 2011
$\begin{array}{llllllllllllllllllllllllllllllllllll$	
$ \begin{array}{l l l l l l l l l l l l l l l l l l l $	(1)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	W 7
$\begin{array}{llllllllllllllllllllllllllllllllllll$	vv
$\begin{array}{llllllllllllllllllllllllllllllllllll$	
	36:19
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	439:3;
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20.401.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $.0,+/1.+
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	16:14;
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
unknowns (1) $363:19;366:12,21;$ $380:20;389:8;392:8;$ $395:15;533:21;$ via (2)watchdog (1) $563:3$ $380:20;389:8;392:8;$ $395:15;533:21;$ $500:21;621:3$ $500:21;621:3$ $383:17$ $383:17$ unless (4) $395:14;402:7;441:5;$ $578:66;629:2$ Vice (15)watching (2) $335:15;443:18,19;$ $599:7$ $474:12;483:19;$ $474:12;483:19;$ $633:1$ $444:22;445:4,9;$ $444:22;445:4,9;$ water (10)unprotected (1) $497:5;530:10;$ $477:12;579:22;$ $474:12;579:22;$ valuation (1) $469:12,13;482:18;$ $590:18;612:7$ $448:8;623:$ water (10)unrealistic (1) $574:21;579:22;$ $498:18$ valuation (1) $580:16;582:5;$ $498:18$ $590:18;612:7$ $590:18;612:7$ $598:4;632:$ $340:21;341:7$ $386:5;388:340:21;341:7344:3;365:340:21;341:7386:5;388:340:21;341:7386:5;388:340:21;341:7386:5;388:340:21;341:7386:10;373:15;596:17;609:13466:2;572:2415:10,200;577:19;578:3366:10;373:15;596:17;609:13496:22;497:6,8;341:6;343:18;460:17;468:11;492:20;493:2,4,6;556:11;59:15;50:6;491:11;507:2597:13;577356:22;361:4,17;5598:16;604:12;408:10;410:2;408:10;4$	40:19,22;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(1)
unless (4) $395:14;402:7;441:5;$ $578:6;629:2$ Vice (15)watching (2) $582:17;592:14,20;$ $454:13;467:6;$ $434:13;467:6;$ $335:15;443:18,19;$ $448:8;623:$ $599:7$ $474:12;483:19;$ $633:1$ $444:22;445:4,9;$ water (10)unprotected (1) $497:5;530:10;$ validation (1) $469:12,13;482:18;$ $404:13;400:$ $611:22$ $533:10;553:6;$ $600:11$ $588:6,7;589:9;12;$ $17,18;428;$ unrealistic (1) $574:21;579:22;$ valuation (1) $590:18;612:7$ $598:4;632:$ $o35:21$ $580:16;582:5;$ $498:18$ victims (3)way (3)unstable (2) $587:12;604:20;$ value (15) $445:13;446:1,3$ $344:3;365:$ $528:22;529:13$ $606:3;617:3,4;620:1;$ $399:6;526:5;$ vide (2) $375:21:382;$ unsuccessfully (1) $634:10$ $556:14,22;557:3,16;$ $340:21;341:7$ $386:5;388;$ $604:13$ used (20) $558:9,11,18;559:6,7;$ view (2) $408:15;414;$ unusual (2) $306:13;364:8;$ $560:4;566:15;$ $466:2;572:2$ $415:10,20;$ $577:19;578:3$ $366:10;373:15;$ $values (6)$ $467:2$ $537:17;550;$ $341:6;343:18;$ $400:17;468:11;$ $496:22;497:6,8;$ $views (2)$ $551:11:559;$ $344:2,3;345:1;$ $492:20;493:2,46;$ $556:11;559:15;60:6;$ $491:11;507:2$ $559:13;76;$ $341:6;343:18;$ $400:17;468:11;$ $496:22;497:6,8;$ $views (2)$ $559:13;76;$ $341:1;3451;5;$ $615:8;642:18;643:5;$ $valves (24)$ 15 <td>(1)</td>	(1)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	(2)
599:7 $474:12;483:19;$ $633:1$ $444:22;445:4,9;$ water (10)unprotected (1) $497:5;530:10;$ validation (1) $469:12,13;482:18;$ $404:13;406$ $611:22$ $533:10;553:6;$ $600:11$ $588:6,7;589:9,12;$ $17,18;428;$ unrealistic (1) $574:21;579:22;$ valuation (1) $590:18;612:7$ $598:4;632;$ $635:21$ $580:16;582:5;$ $498:18$ victims (3)way (3)unstable (2) $587:12;604:20;$ value (15) $445:13;446:1,3$ $344:3;365;$ $528:22;529:13$ $606:3;617:3,4;620:1;$ $399:6;526:5;$ video (2) $375:21;382;$ unsuccessfully (1) $634:10$ $556:14,22;57:3;16;$ $340:21;341:7$ $386:5;388;$ $604:13$ used (20) $558:9;1,1;8;559:6,7;$ view (2) $408:15;414;$ unsual (2) $360:13;364:8;$ $560:4;566:15;$ $466:2;572:2$ $415:10,20;$ $577:19;578:3$ $366:10;373:15;$ $596:17;609:13$ Viewer (1) $462:16;467;$ $up (83)$ $394:6;420:15;453:8;$ values (6) $467:2$ $537:17;550;$ $341:6;343:18;$ $460:17;468:11;$ $496:22;497:6,8;$ views (2) $551:11;556;$ $348:13,15,15;$ $615:8;642:18;643:5$ $408:10;410:2;$ $408:10;410;2;$ $539:19;69:20;588;$ $383:17;387:9,16;$ $598:16;604:12;$ $605:19$ $634:10;636:9,10,$ $589:7;509:$ $411:18;412:11;$ $user (1)$ $492:12;655:16,16;$ $violation (1)$ $527:53:17;764;420:559:634;420:559:634;420:559:634;420:559:634;420:559:634;420:559:634;420;420;439:9;$ $413:1,46$	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
unrealistic (1) $574:21;579:22;$ $580:16;582:5;$ valuation (1) $590:18;612:7$ $598:4;632:$ 635:21 $580:16;582:5;$ $498:18$ victims (3)way (33)unstable (2) $587:12;604:20;$ $498:18$ victims (3) $344:3;365;$ $528:22;529:13$ $606:3;617:3,4;620:1;$ $399:6;526:5;$ vide (2) $375:21;383;$ unsuccessfully (1) $634:10$ $556:14,22;557:3,16;$ $340:21;341:7$ $386:5;388;$ $604:13$ used (20) $589:11,18;559:6;;$ view (2) $408:15;414;$ unusual (2) $360:13;364:8;$ $560:4;566:15;$ $466:2;572:2$ $415:10,20;$ $577:19;578:3$ $366:10;373:15;$ $596:17;609:13$ Viewer (1) $462:16;467;$ up (83) $394:6;420:15;453:8;$ $values (6)$ $467:2$ $537:17;550;$ $341:6;343:18;$ $460:17;468:11;$ $496:22;497:6,8;$ $views (2)$ $551:11;559;$ $344:2,3;345:1;$ $492:20;493:2,4,6;$ $556:11;559:15;560:6;$ $491:11;507:2$ $559:13;576;$ $346:6;420:15;453:8;$ $406:17;468:11;$ $496:22;497:6,8;$ $violation (4)$ $586:20;588;$ $388:13,15,15;$ $615:8;642:18;643:5$ $valves (24)$ 15 $612:11;614;$ $401:20;406:18;$ $useful (2)$ $408:10;410:2;$ $violation (1)$ $627:15,19;$ $411:18;412:11;$ $user (1)$ $449:1;565:16,16;$ $visan (1)$ $627:15,19;$ $411:18;412:11;$ $user (1)$ $449:1;565:16,16;$ $599:5;636:20$ $413:21,434;$ $421:6,7,422:15;$ $user-friendly (1)$ $605:2,$	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	28:7;596:3,5;
unstable (2) $587:12;604:20;$ $606:3;617:3,4;620:1;$ value (15) $445:13;446:1,3$ $344:3;365:$ $528:22;529:13$ $606:3;617:3,4;620:1;$ $634:10$ $399:6;526:5;$ $556:14,22;557:3,16;$ $340:21;341:7$ $386:5;388:$ $604:13$ used (20) $558:9,11,18;559:6,7;$ $577:19;578:3$ $360:13;364:8;$ $360:13;364:8;$ $560:4;566:15;$ $596:17;609:13$ $466:2;572:2$ $415:10,20;$ $unusual (2)$ $360:13;364:8;$ $394:6;420:15;453:8;$ $596:17;609:13$ $Viewer (1)$ $462:16;467;2462:16;467;up (83)394:6;420:15;453:8;344:2,3;345:1;496:22;497:6,8;496:22;497:6,8;views (2)467:2551:11;559;344:2,3;345:1;492:20;493:2,4,6;556:11;590:9;values (6)467:2467:2551:11;559;356:22;361:4,17;356:21;590:9;valve (1)valve (1)violation (4)586:20;588;388:13,15,15;615:8;642:18;643:5401:20;406:18;useful (2)407:20;409:13;590:20;604:2411:1,10,11;448:10;539:19violation (1)539:19visual (1)627:15,19;492:15,51:41:51415:4;416:1;417:15;421:15421:6,7;422:15;user (1)421:15449:1;565:16,16;509:5;636:20413:21;434421:6;7;422:15;user (3)12,17,22;607:19;375:3352:5;534:438:20;439:9;uses (3)608:11;609:10;vistal (1)19;553:1,7448:16;449:5,7;407:17;468:10;611:20;627:9354:8571:2;586:$	32:19
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5.1 2 1.
unsuccessfully (1) $634:10$ $556:14,22;557:3,16;$ $340:21;341:7$ $386:5;388;$ $604:13$ used (20) $558:9,11,18;559:67;$ $408:15;414$ unusual (2) $360:13;364:8;$ $560:4;566:15;$ $466:2;572:2$ $415:10,20;$ $577:19;578:3$ $366:10;373:15;$ $596:17;609:13$ $Viewer (1)$ $462:16;467$ up (83) $394:6;420:15;453:8;$ $400:17;468:11;$ $496:22;497:6,8;$ $467:2$ $537:17;550;$ $341:6;343:18;$ $460:17;468:11;$ $496:22;497:6,8;$ $467:2$ $551:11;558;$ $344:2,3;345:1;$ $492:20;493:2,4,6;$ $556:11;559:15;560:6$ $491:11;507:2$ $559:13;576;$ $356:22;361:4,17;$ $556:21;590:9;$ $valve (1)$ $634:10;636:9;10,$ $589:17;604;$ $388:13,15,15;$ $615:8;642:18;643:5$ $valves (24)$ 15 $612:11;614;$ $401:20;406:18;$ $useful (2)$ $408:10;410:2;$ $violation (4)$ $589:17;604;$ $411:18;412:11;$ $useful (2)$ $408:10;410:2;$ $539:19$ $ways (15)$ $411:18;412:11;$ $user (1)$ $449:1;565:16,16;$ $539:19$ $ways (15)$ $421:6,7;422:15;$ $user-friendly (1)$ $605:2,3;604:10;$ $509:5;636:20$ $413:2:1434;$ $431:3;436:17;$ $459:20$ $12,17,22;607:19;$ $375:3$ $532:5;534;$ $438:20;439:9;$ $uses (3)$ $608:11;609:10;$ $vital (1)$ $19;553:1,7$ $448:16;449:5,7;$ $407:17;468:10;$ $611:20;627:9$ $354:8$ $571:2;586:$	/ / /
604:13used (20) $558:9,11,18;559:6,7;$ view (2) $408:15;414$ unusual (2) $360:13;364:8;$ $560:4;566:15;$ $466:2;572:2$ $415:10,20;$ $577:19;578:3$ $366:10;373:15;$ $596:17;609:13$ Viewer (1) $462:16;467;$ up (83) $394:6;420:15;453:8;$ values (6) $467:2$ $537:17;550;$ $341:6;343:18;$ $460:17;468:11;$ $496:22;497:6,8;$ views (2) $551:11;558;$ $344:2,3;345:1;$ $492:20;493:2,4,6;$ $556:11;559:15;560:6$ $491:11;507:2$ $559:13;576;$ $356:22;361:4,17;$ $556:21;590:9;$ valve (1)violation (4) $586:20;588;$ $383:17;387:9,16;$ $598:16;604:12;$ $605:19$ $634:10;636:9,10,$ $589:17;604;$ $388:13,15,15;$ $615:8;642:18;643:5$ valves (24) 15 $612:11;614;$ $401:20;406:18;$ useful (2) $408:10;410:2;$ violations (1) $627:15,19;$ $407:20;409:13;$ $590:20;604:2$ $411:1,10,11;448:10;$ $539:19$ ways (15) $411:18;412:11;$ user (1) $449:1;565:16,16;$ vision (2) $389:7;399:$ $415:4;416:1;417:15;$ $421:15$ $566:2,3;604:10;$ $509:5;636:20$ $413:21;434;$ $431:3;436:17;$ $459:20$ $12,17,22;607:19;$ $375:3$ $532:5;534:$ $438:20;439:9;$ uses (3) $608:11;609:10;$ vital (1) $19;553:1,7;536;$ $448:16;449:5,7;$ $407:17;468:10;$ $611:20;627:9$ $354:8$ $571:2;586;$	38:4;402:19;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	/ /
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20;417:14;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
411:18;412:11;user (1)449:1;565:16,16;vision (2)389:7;399:415:4;416:1;417:15;421:15566:2,3;604:10;509:5;636:20413:21;434421:6,7;422:15;user-friendly (1)605:2,14,14;606:3,visual (1)459:16;487431:3;436:17;459:2012,17,22;607:19;375:3532:5;534:438:20;439:9;uses (3)608:11;609:10;vital (1)19;553:1,7448:16;449:5,7;407:17;468:10;611:20;627:9354:8571:2;586:	19;634:13,14
415:4;416:1;417:15;421:15566:2,3;604:10;509:5;636:20413:21;434421:6,7;422:15;user-friendly (1)605:2,14,14;606:3,visual (1)459:16;487431:3;436:17;459:2012,17,22;607:19;375:3532:5;534:438:20;439:9;uses (3)608:11;609:10;vital (1)19;553:1,7448:16;449:5,7;407:17;468:10;611:20;627:9354:8571:2;586:	
421:6,7;422:15; 431:3;436:17;user-friendly (1)605:2,14,14;606:3, 12,17,22;607:19;visual (1)459:16;487431:3;436:17; 438:20;439:9; 448:16;449:5,7;459:2012,17,22;607:19; 608:11;609:10;375:3532:5;534: 12,17,22;607:19;448:16;449:5,7;407:17;468:10;611:20;627:9354:8571:2;586:	· ·
431:3;436:17; 438:20;439:9; 448:16;449:5,7;459:20 uses (3)12,17,22;607:19; 608:11;609:10; 611:20;627:9375:3 vital (1)532:5;534: 19;553:1,7407:17;468:10;608:11;609:10; 611:20;627:9vital (1) 354:819;553:1,7 571:2;586:	
438:20;439:9; 448:16;449:5,7;uses (3)608:11;609:10; 611:20;627:9vital (1)19;553:1,7407:17;468:10;611:20;627:9354:8571:2;586:	
448:16;449:5,7; 407:17;468:10; 611:20;627:9 354:8 571:2;586:	
voluntary (1) weaknesses (
8;467:1,4;468:20; using (12) 397:7;505:7 531:15 573:7;593:	93:1
474:12;478:11; 391:13;443:11; variety (4) volunteer (2) wealth (1)	

PG&E Gas Transmission	n Pipeline - DAY 2	1	1	March 2, 201
465:9	545:2;549:12;	333:10,16;337:15;	workshops (3)	578:18;580:21;
web (1)	566:15;569:2;	403:22;404:9;	372:10;425:19;	581:8;584:16;
351:9	576:12,13;578:19;	412:14,16;413:9;	569:5	592:20;616:3;624:6;
				626:11
web-based (1) 498:22	585:10;588:14;	429:5;478:7,10,22;	world (1) 612:22	
	589:18,18;613:15;	479:8;482:20;505:9;		yellow (2)
website (12)	635:13;639:13	609:5	worth (2)	410:16;475:5
360:11;390:8;	whereby (3)	WMATA (1)	567:10;633:4	yesterday (16)
403:7;421:15;	369:22;457:12;	483:8	write (1)	409:18;470:4,13;
430:21;431:8;455:5;	471:16	wonder (3)	613:14	523:4;524:11;525:4;
460:8;465:4,15;	wherever (1)	457:21;569:19;	writers (1)	556:8,18;557:21;
474:13;475:15	469:20	572:18	387:1	560:22;564:6;604:8;
WEDNESDAY (1)	whole (8)	wondered (1)	writing (1)	641:3,8;642:6,21
644:8	397:14;437:16;	523:8	457:15	yesterday's (2)
week (1)	438:12;555:6;	wonderful (2)	written (11)	530:5;641:17
393:2	561:20,21;594:13;	460:5;607:18	390:5;391:19;	_
weeks (2)	630:22	wondering (4)	392:17,18;393:21;	Z
450:22;631:21	who's (4)	434:13;443:14;	424:8;461:14;	
Weener (24)	417:6;464:18;	530:9;620:17	488:16;535:3,16;	ZACH (32)
435:16,17,22;	536:16;616:6	word (3)	637:15	478:20;479:11;
436:6,10,17;437:4;	Whose (3)	383:22;427:17;	wrong (3)	481:20,21;528:14,
466:21,22;578:11,	433:7;549:3,4	459:19	385:20;453:16;	15;530:1;531:4;
12;579:13;580:6;	widespread (1)	words (3)	634:22	540:6;542:10;543:8;
613:5,6;614:9,18,21;	523:16	386:22;565:3;	wrongheaded (1)	544:2,5,15,18;545:4,
615:2,5,15,19;	WIESE (19)	613:13	528:4	9,12;546:4;551:13;
616:17;618:2	413:11;414:13;	work (37)	Wyoming (1)	567:20;571:2;582:2,
weigh (2)	415:21;457:19,20;	337:9;338:20;	335:2	14;583:12;585:3;
528:11:598:19	458:18;460:10;	342:15;344:8;372:1,	555.2	591:4;592:12;593:3;
weightings (2)	462:12;467:13;	9;374:17;397:10;	Y	622:15;623:6;625:10
492:16,20	566:11;567:13;	403:11,16;404:15;		zoning (2)
Weimer (31)	569:13;571:7;	405:3;417:3;443:6;	yards (1)	389:8;441:5
333:14,22;336:2,3,	589:13;610:18,21,	451:8;467:2,4;	555:7	
				zoom (1)
3;375:18;382:20;	22;612:5;642:6	477:11;506:1;512:9;	year (25)	460:16
383:1,22;384:14;	window (2)	513:16;539:22;	335:22;356:9;	
385:16;386:11;	591:10,16	547:4;553:9,15,17;	374:6;389:5;429:10;	
388:17,18;389:3;	windshield (1)	555:16;567:8;570:6;	440:22;451:14;	
390:7,12;401:7,8;	444:3	583:5;609:20;	502:21;506:22;	
416:19;423:20;	wish (3)	611:15;616:8;619:6;	510:7;519:18;	
426:1;433:7,13;	464:17;520:9;	623:17;624:8;632:14	538:19;542:13;	
435:4;438:3,5,8;	632:10	worked (12)	543:1;569:21,22;	
440:19;452:10;	within (31)	336:15;337:4;	570:8;581:8;582:3,6;	
459:15	336:15;338:1;	381:17;391:3;469:3,	615:11;625:10,12,	
velcome (7)	357:10;361:13;	8;475:7,9;570:16,18;	16;640:8	
333:6;414:4;	365:15;367:12,21;	583:18;599:11	years (77)	
416:8;478:3;483:2;	368:2;369:17;	workforce (2)	334:12;335:4,9,21,	
566:5;618:4	370:10;380:20;	625:4;627:19	22;336:14,17;337:6;	
weld (1)	391:9;397:3;407:22;	working (30)	350:10,22;384:22;	
523:6	421:15;451:12;	335:9,21;337:11;	387:15;399:20;	
well-known (1)	462:5;464:20;466:1;	368:8;392:6,6,11;	407:14;415:3;416:3;	
380:21	480:3;495:4,14;	395:2,2,8;396:9;	426:20;429:9;434:7;	
well-trained (1)	508:17;509:21;	423:15;462:9,10;	451:12;459:11;	
i ch i anica (1)				
547.7			460.13.472.5.475.8	
547:7 veren't (1)	511:8;564:12,19;	482:4;507:7,12;	460:13;472:5;475:8,	
weren't (1)	511:8;564:12,19; 575:16;617:8;	482:4;507:7,12; 522:3;539:7;540:11;	15;481:1,1,15;482:4,	
veren't (1) 488:9	511:8;564:12,19; 575:16;617:8; 619:10;636:22	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11;	15;481:1,1,15;482:4, 4,16;483:4;488:2;	
weren't (1) 488:9 Whatcom (1)	511:8;564:12,19; 575:16;617:8; 619:10;636:22 without (7)	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11; 581:21;588:14,21;	15;481:1,1,15;482:4, 4,16;483:4;488:2; 495:7;501:6;502:10,	
weren't (1) 488:9 Whatcom (1) 336:8	511:8;564:12,19; 575:16;617:8; 619:10;636:22 without (7) 375:20;406:15;	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11; 581:21;588:14,21; 589:18,18;623:15,16	15;481:1,1,15;482:4, 4,16;483:4;488:2; 495:7;501:6;502:10, 11;507:11;511:1,3,	
weren't (1) 488:9 Whatcom (1) 336:8 what's (36)	511:8;564:12,19; 575:16;617:8; 619:10;636:22 without (7) 375:20;406:15; 412:5;520:20;	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11; 581:21;588:14,21; 589:18,18;623:15,16 works (9)	15;481:1,1,15;482:4, 4,16;483:4;488:2; 495:7;501:6;502:10, 11;507:11;511:1,3, 22;519:21;525:7,19,	
weren't (1) 488:9 Whatcom (1) 336:8 what's (36) 343:4;364:10,13;	511:8;564:12,19; 575:16;617:8; 619:10;636:22 without (7) 375:20;406:15; 412:5;520:20; 552:20,21;580:17	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11; 581:21;588:14,21; 589:18,18;623:15,16 works (9) 354:14;403:11;	15;481:1,1,15;482:4, 4,16;483:4;488:2; 495:7;501:6;502:10, 11;507:11;511:1,3, 22;519:21;525:7,19, 22;526:3,4,6,9;	
weren't (1) 488:9 Whatcom (1) 336:8 what's (36) 343:4;364:10,13; 375:4;378:4;381:11;	511:8;564:12,19; 575:16;617:8; 619:10;636:22 without (7) 375:20;406:15; 412:5;520:20; 552:20,21;580:17 witness (6)	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11; 581:21;588:14,21; 589:18,18;623:15,16 works (9) 354:14;403:11; 405:10;420:2;	15;481:1,1,15;482:4, 4,16;483:4;488:2; 495:7;501:6;502:10, 11;507:11;511:1,3, 22;519:21;525:7,19, 22;526:3,4,69; 528:8,19;529:21;	
weren't (1) 488:9 Whatcom (1) 336:8 what's (36) 343:4;364:10,13; 375:4;378:4;381:11; 392:5,6;395:1,2;	511:8;564:12,19; 575:16;617:8; 619:10;636:22 without (7) 375:20;406:15; 412:5;520:20; 552:20,21;580:17 witness (6) 334:3;560:17,22;	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11; 581:21;588:14,21; 589:18,18;623:15,16 works (9) 354:14;403:11; 405:10;420:2; 507:10;539:17;	15;481:1,1,15;482:4, 4,16;483:4;488:2; 495:7;501:6;502:10, 11;507:11;511:1,3, 22;519:21;525:7,19, 22;526:3,4,6,9; 528:8,19;529:21; 530:2;531:7;539:13;	
weren't (1) 488:9 Whatcom (1) 336:8 what's (36) 343:4;364:10,13; 375:4;378:4;381:11; 392:5,6;395:1,2; 405:9;419:17;	511:8;564:12,19; 575:16;617:8; 619:10;636:22 without (7) 375:20;406:15; 412:5;520:20; 552:20,21;580:17 witness (6) 334:3;560:17,22; 641:1,4,14	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11; 581:21;588:14,21; 589:18,18;623:15,16 works (9) 354:14;403:11; 405:10;420:2; 507:10;539:17; 555:6;570:7;585:17	15;481:1,1,15;482:4, 4,16;483:4;488:2; 495:7;501:6;502:10, 11;507:11;511:1,3, 22;519:21;525:7,19, 22;526:3,4,6,9; 528:8,19;529:21; 530:2;531:7;539:13; 540:10,12;542:9,14,	
weren't (1) 488:9 Whatcom (1) 336:8 what's (36) 343:4;364:10,13; 375:4;378:4;381:11; 392:5,6;395:1,2;	511:8;564:12,19; 575:16;617:8; 619:10;636:22 without (7) 375:20;406:15; 412:5;520:20; 552:20,21;580:17 witness (6) 334:3;560:17,22;	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11; 581:21;588:14,21; 589:18,18;623:15,16 works (9) 354:14;403:11; 405:10;420:2; 507:10;539:17;	15;481:1,1,15;482:4, 4,16;483:4;488:2; 495:7;501:6;502:10, 11;507:11;511:1,3, 22;519:21;525:7,19, 22;526:3,4,6,9; 528:8,19;529:21; 530:2;531:7;539:13;	
weren't (1) 488:9 Whatcom (1) 336:8 what's (36) 343:4;364:10,13; 375:4;378:4;381:11; 392:5,6;395:1,2; 405:9;419:17;	511:8;564:12,19; 575:16;617:8; 619:10;636:22 without (7) 375:20;406:15; 412:5;520:20; 552:20,21;580:17 witness (6) 334:3;560:17,22; 641:1,4,14	482:4;507:7,12; 522:3;539:7;540:11; 551:17;572:3,11; 581:21;588:14,21; 589:18,18;623:15,16 works (9) 354:14;403:11; 405:10;420:2; 507:10;539:17; 555:6;570:7;585:17	15;481:1,1,15;482:4, 4,16;483:4;488:2; 495:7;501:6;502:10, 11;507:11;511:1,3, 22;519:21;525:7,19, 22;526:3,4,6,9; 528:8,19;529:21; 530:2;531:7;539:13; 540:10,12;542:9,14,	