Prepared by:



GENERAL REQUIREMENTS WORK REPORTABLE TO THE CALIFORNIA PUBLIC UTILITIES COMMISSION

A-34.1

Asset Type: Gas Transmission and Distribution Function: Design and Construction

Issued by: Original Signed By Date: 02-25-10

Rev. #05: This document replaces Revision #04. For a description of the changes, see Page 4.

Purpose and Scope

This numbered document establishes uniform procedures for preparing reports required by <u>G.O. 112-E</u>, Sections 125, 126, and 162.3. It also establishes the procedures for filing the reports with the CPUC.

Acronyms

CFR: Code of Federal Regulations

CPUC: California Public Utilities Commission

DOT: Department of Transportation

G.O.: General Order

GRI: Gas Research Institute LNG: liquefied natural gas

MAOP: maximum allowable operating pressure

psig: pounds per square inch gauge RS&A: Regulatory Support and Analysis

RSPA: Research and Special Programs Administration

SMYS: specified minimum yield strength

U.S.: United States
USB: Utility Safety Branch

References

DOT Code of Federal Regulations, Latest Edition

CPUC General Order 112-E, Latest Edition

G.O. 112-E

Piping Design and Test Requirements

Hydrostatic Testing Procedure

A-37

Revising the MAOP of Pipelines Operating at 60 psig or Less

Incident Report – Gas Distribution System

Form PHMSA F 7100.1

Incident Report – Gas Transmission and Gathering Systems

Form PHMSA F 7100.2

Definitions of Reportable Work

- 1. Report work when constructing a new pipeline, or reconstructing or reconditioning an existing pipeline, that meets both of the following conditions:
 - A. At the proposed MAOP, will operate at a hoop stress of 20% or more of the SMYS of the pipe.
 - B. Will cost \$2.5 million (financial) or more.

Note: For the purpose of Item 1 above, "pipeline" work is limited to the installation, relocation, or reinforcement of line pipe. If a project includes both pipeline work and associated non-pipeline related work, such as station regulation and controls, station piping, main-line valve work, or other capital or expense related non-pipeline work, apply only the direct "pipeline" work costs toward the \$2.5 million financial threshold when determining whether a project is reportable.

- 2. Report work when increasing the MAOP of pipeline systems as outlined below:
 - A. Uprating a pipeline to an MAOP that produces a hoop stress of 20% or more of the SMYS.
 - B. Uprating 2,500' or more of distribution main from an MAOP of 60 psig or less to an MAOP of more than 60 psig.

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- C. Uprating by converting 5,000' or more of a low-pressure distribution main, operating at a standard customer delivery pressure (does not require service regulators) to a high-pressure distribution main, operating in excess of standard customer delivery pressure (requires service regulators).
 - **Exception:** Work is not reportable when converting a segment of a distribution system serving 300 or fewer customers by connecting the service lines individually to a higher-pressure main.
- 3. Report work when test failures occur while strength testing a pipeline that will be operated at a hoop stress of 20% or more of the SMYS of the pipe used.
- 4. Report work when using a Clock Spring wrap to repair defects in a pipeline operating at 40% or more of SMYS.
- 5. Report work when constructing a permanent LNG facility or when intending to inject vaporized LNG using a mobile and temporary LNG facility.

Responsibility

- 6. The responsible engineer for the project shall determine whether or not the proposed work is reportable to the CPUC according to the parameters specified in this document.
 - A. The responsible engineer or designee shall prepare and assemble the specified reports and drawings along with the written reports required by the CPUC.
 - B. Gas engineering employees shall review the written reports and associated documentation, and submit the finalized paperwork to the CPUC.
 - C. Gas engineering employees shall monitor all reportable work and issue status reports, as needed.
 - D. Line organizations shall provide timely feedback to gas engineering regarding the current status of reportable projects under their respective jurisdictions (e.g., scope and schedule changes). Correspondence should be sent by email to Gas CPUC Report.

30-Day Written Notification Report to the CPUC

- 7. Reports for applicable new construction, reconstruction, or reconditioning jobs must be submitted to the CPUC 30 days before construction begins. Reports must be signed by the senior director of gas engineering before they are forwarded to the CPUC. In order to ensure that reports are filed in a timely manner, it is necessary that gas engineering employees receive accurate and complete engineering reports, written in the specified format, no later than 45 days before the start of construction. Late reports to the CPUC may result in postponing construction or require writing a letter to the CPUC explaining why the report was late.
 - A. Reports to the CPUC must contain the following information:
 - (1) The construction project's job title.
 - (2) An introductory paragraph referencing the section of <u>G.O. 112-E</u> requiring the report and a brief description of the scope of work. Include the following information in the scope of work section of the document:
 - A description of and the purpose for the proposed work.
 - The specification of the pipes selected for installation.
 - The MAOP for which the line is being constructed.
 - The test fluid and test pressure to be used during strength testing. This subsection must refer to Numbered Documents <u>A-34</u> and <u>A-37</u>, as applicable. The effects of elevation variation on test pressure must be defined on the strength test pressure report.
 - The measures taken to protect the pipeline from hazards as indicated in 49 CFR 192.317 and 49 CFR 192.319.
 - The measures taken to protect the pipeline from external corrosion.
 - The reasons for using casing or bridging where the minimum cover will be less than that specified in 49 CFR 192.327.
 - · The estimated financial cost of the project.
 - · The estimated start of construction date.
 - Include the name and telephone number of the construction project's contact person.

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General Requirements Work Reportable to the California Public Utilities Commission

- (3) A general arrangement drawing of the pipeline installation. This drawing must show the route of the pipeline and identify the class locations and required design factors for each segment of the pipeline requiring different design factors.
- (4) A vicinity map showing the location of the work with respect to other well-defined landmarks.
- B. It is not necessary to include a set of construction drawings when submitting the 30-day report to the CPUC. These construction drawings should be available upon request.
 - Construction drawings must show plan and profile views of the pipeline and include all other required data. For a description of required construction drawing content, format, technical reviews, and professional engineering reviews, see Numbered Document A-34.
- 8. Reports for uprate projects must be submitted to the CPUC 30 days before beginning an uprate. Reports must be signed by the senior director of gas engineering before they are forwarded to the CPUC. In order to ensure that reports are filed in a timely manner, it is necessary that gas engineering employees receive accurate and complete engineering reports, written in the specified format, no later than 45 days before the start of the uprate. Late reports to the CPUC may result in postponing the uprate or require writing a letter to the CPUC explaining why the report was late.
 - A. Reports to the CPUC must contain the following information:
 - (1) The uprate project's job title.
 - (2) An introductory paragraph referencing the section of <u>G.O. 112-E</u> requiring the report and a brief description of the scope of work. Include the following information in the scope of work section of the document:
 - The MAOP before uprating and after uprating.
 - A description of and the purpose for the uprating
 - The steps taken to determine the capability of the pipeline to withstand the planned pressure increase.
 - The estimated start date of the uprating.
 - · Include the name and telephone number of the uprate's contact person.
 - B. It is not necessary to include a copy of the detailed uprate procedure when submitting the 30-day report to the CPUC. These procedures should be available upon request. <u>TD-4125P-03</u> contains a sample low-pressure to semi-high or high-pressure uprate procedure.

90-Day Written Notification Report to the CPUC - Permanent LNG Facility Installation

- 9. Reports of construction of new, permanent LNG facilities must be submitted to the CPUC 90 days before construction begins. The senior director of gas engineering must sign reports before they are forwarded to the CPUC. In order to ensure that reports are filed in a timely manner, it is necessary that gas engineering employees receive accurate and complete reports, written in the specified format, no later than 15 calendar weeks before the start of construction.
 - A. Reports to the CPUC must contain the following information:
 - (1) The construction project's job title.
 - (2) An introductory paragraph referencing <u>G.O. 112-E</u>, Section 162.3, requiring the report and a brief description of and the purpose for the proposed work.
 - A location description.
 - B. It is not necessary to include a set of construction drawings when submitting the 90-day report to the CPUC. These construction drawings should be available upon request.

2-Week Written Notification Report to the CPUC – Mobile and Temporary LNG Facilities

10. Except in an emergency, reports of intending to inject vaporized LNG using mobile and temporary LNG facilities must be submitted to the CPUC at least 2 weeks before the injection occurs. The responsible LNG project manager shall provide the information identified below to an RS&A representative. The RS&A representative will provide the notification to the CPUC. Email notifications to the CPUC are acceptable. The RS&A representative

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will also notify key personnel including the senior director of gas engineering that the notification to the CPUC has been made.

- A. Reports to the CPUC must contain the following information:
 - (1) An introductory paragraph referencing <u>49 CFR 193.2019</u>, requiring the report and a brief description of and the purpose for the proposed work.
 - (2) A location description, including to the extent practical, all of the following:
 - · Details of the siting,
 - · Leakage containment or control,
 - Fire fighting equipment, and
 - · Methods employed to restrict public access.

Test Failures

Reports for test failures, as required in the "Definitions of Reportable Work" section, Item 3 on Page 2 of this numbered document, shall be submitted on DOT <u>Form PHMSA F 7100.1</u> for distribution lines and DOT <u>Form PHMSA F 7100.2</u> for transmission and gathering lines.

Revision Notes

Revision 05 has the following changes:

- 1. Updated the "Acronyms" section.
- 2. Modified the requirement to reflect reporting requirements from "siting" to "intending to inject vaporized LNG using" mobile and temporary LNG facilities.
- 3. This document is part of Change 62.

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NOTICE: This report is required by 49 CFR Part 191. Failure to report can result in a civil penalty not to exceed \$100,000 for each violation for each day the violation continues up to a maximum of \$1,000,000 for any related series of violations as provided in 49 USC 60122.

Form Approved OMB No. 2137-

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INSTRUCTIONS
U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration
0522

INCIDENT REPORT - GAS DISTRIBUTION SYSTEM

Report Date	
No.	
(DOT Use Only)	

Important: Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the Office Of Pipeline Safety Web Page at http://ops.dot.gov.

Pipeline Safety Web Page at http://ops.dot.gov.					
PART A – GENERAL REPORT INFORMATION Check: Original Report Supplemental Report Final Report					
1. Operator Name and Address					
a. Operator's 5-digit Identification Number / / / / / /					
b. If Operator does not own the pipeline, enter Owner's 5-digit Ide	entification Number / / / / / /				
c. Name of Operator					
d. Operator street address					
e. Operator address					
City, County or Parish, State and Zip Code					
2. Time and date of the incident	5. Consequences (check and complete all that apply)				
/ / / / / / / / / / / / / / / / / / /	a. Fatality Total number of people: /////				
hr. month day year	Employees: General Public:				
3. Incident Location	Non-employee Contractors: / / / / /				
a Street or nearest street or road	b. Injury requiring inpatient hospitalization				
	Total number of people: / / / /				
b City and County or Parish	Employees: / / / / General Public: / / /				
c State and Zip Code	Non-employee Contractors: 1 / / /				
d. Latitude: / / / / / Longitude: / / / / / /	c. Property damage/loss (estimated) Total \$				
(if not available, see instructions for how to provide specific location)	Gas loss \$ Operator damage \$				
e. Class location description	Public/private property damage \$				
O Class 1 O Class 2 O Class 3 O Class 4	d. ☐ Gas ignited O Explosion O No Explosion				
f. Incident on Federal Land O Yes O No					
Type of leak or rupture	e. \square Gas did not ignite O Explosion O No Explosion				
O Leak: OPinhole OConnection Failure (complete sec. F5)	f. \square Evacuation (general public only) / / / / / people				
O Puncture, diameter or cross section (inches)	Evacuation Reason:				
O Rupture (if applicable):	O Unknown				
O Circumferential – Separation	O Emergency worker or public official ordered, precautionary O Threat to the public				
O Longitudinal	O Company policy				
- Tear/Crack, length (inches)	6. Elapsed time until area was made safe:				
- Propagation Length, total, both sides (feet)					
O N/A	7. Telephone Report				
O Other:					
	/ / / / / / / / / / / / / / / / / / /				
	8. a. Estimated pressure at point and time of incident:				
	<i>PSIG</i>				
	b. Max. allowable operating pressure (MAOP): PSIG				
	c. MAOP established by:				
	O Test Pressure psig O 49 CFR § 192. 619 (a)(3)				
	O 49 CFN g 192. 019 (a)(5)				
PART B – PREPARER AND AUTHORIZED SIGNATURE	J				
(type or print) Preparer's Name and Title	Area Code and Telephone Number				
1972 - Service Control of the Contro	Sada and Tolophone Humbon				
	Area Code and Facsimile Number				
Preparer's E-mail Address	Alea Code and Facsimile Number				
Authorized Signature (type or print) Name	and Title Date Area Code and Telephone Number				

PART C - ORIGIN OF THE INCIDENT						
O Main O Meter Set O Service Line O Other: O Pressure Limiting and Regulating Facility 2. Failure occurred on O Body of pipe O Pipe Seam O Joint O Component	3. Material involved (pipe, fitting, or other component) ○ Steel ○ Cast/Wrought Iron ○ Polyethelene Plastic (complete all items that apply in a-c) ○ Other Plastic (complete all items that apply in a-c) Plastic failure was: □ a.ductile □ b.brittle □ c.joint failure ○ Other material: □					
PART D - MATERIAL SPECIFICATION (if applicable)	PART E - ENVIRONMENT					
1. Nominal pipe size (NPS)	Area of incident O In open ditch					
2. Wall thickness	O Under pavement O Above ground					
3. Specification SMYS / / / / / / /	O Under ground O Under water O Inside/under building O Other:					
4. Seam type						
5. Valve type	2. Depth of cover: inches					
6. Pipe or valve manufactured by	in year / <u>////</u>					
Important: There are 25 num	bered causes in this section. Check the box to the left of the primary					
PART F - APPARENT CAUSE cause of the incident. Check	one circle in each of the supplemental items to the right of or below he instructions for this form for guidance.					
F1 – CORROSION If either F1 (1) External Corrosion, or F	-1 (2) Internal Corrosion is checked, complete all subparts a – e.					
a. Pipe Coating b. Visual Exan						
O Bare O Localize 1. External Corrosion O Coated O General	Š					
	O Microbiological					
\rangle \(\rangle \)	O Other:					
d Was correded part of pipeline consis	dered to be under cathodic protection prior to discovering incident?					
O No O Yes O Unknow						
2. Internal Corrosion e. Was pipe previously damaged in the	e area of corrosion?					
	viii Tow long prior to includent. I Town long prior to includent.					
F2 - NATURAL FORCES 3. □ Earth Movement ⇒ O Earthquake O Subsidence	e O Landslide O Other:					
l –	e O candiside O Otner.					
4. Lightning	O Mudalida — O Casanina — O Othan					
5. ☐ Heavy Rains/Floods ⇒ O Washouts O Flotation	O Mudslide O Scouring O Other:					
6. ☐ Temperature ⇒ O Thermal stress O Frost heave	e O Frozen components O Other:					
7. High Winds F3 - EXCAVATION						
8. D Operator Excavation Damage (including their contractors) / Not	Third Darty					
	Tillio Party					
9. ☐ Third Party Excavation Damage (complete a-d) a. Excavator group						
O General Public O Government O Excavator other						
b. Type: O Road Work O Pipeline O Water O Electri O Building Construction O Other:	c O Sewer O Phone/Cable/Fiber O Landowner O Railroad					
c. Did operator get prior notification of excavation activity?						
O No O Yes: Date received: //_/ mo. //_/ day //_/ yr. Notification received from: O One Call System O Excavator O General Contractor O Landowner						
d. Was pipeline marked?	THE CONTRACTOR OF THE PROPERTY					
O No O Yes (If Yes, check applicable items i – iv)) Stakes O Beint					
i. Temporary markings: O Flags O Stakes O Paint ii. Permanent markings: O Yes O No						
iii. Marks were <i>(check one)</i> O Accurate O Not Accurate						
iv. Were marks made within required time? O Yes O No F4 – OTHER OUTSIDE FORCE DAMAGE						
10. ☐ Fire/Explosion as primary cause of failure ⇒ Fire/Explosion	cause: O Man made O Natural Describe in Part G					
11. Car, truck or other vehicle not relating to excavation activity dan						
12. Rupture of Previously Damaged Pipe						
13. Vandalism						

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F5 – MATERIAL OR WEL	.DS						
Material							
14. D Body of Pipe	\Rightarrow	O Dent	O Gouge	O Wrinkle Bend	O Arc Burn	O Other:	
15. Component	\Rightarrow	O Valve	O Fitting	O Vessel	O Extruded Outlet	O Other:	
16. D Joint	\Rightarrow	O Gasket	O O-Ring	O Threads	O Fusion	O Other:	
Weld			-				
17. 🗖 Butt	\Rightarrow	O Pipe	O Fabrication			O Other:	
18. Fillet	\Rightarrow	O Branch	O Hot Tap	O Fitting	O Repair Sleeve	O Other:	
19. Pipe Seam	\Rightarrow	O LF ERW	O DSAW	O Seamless	O Flash Weld		
—		O HF ERW	O SAW	O Spiral		O Other:	
Complete a-f if you	indica	ate any cause	in part F5.				
a. Type of failure							
☐ Constru	ction D	efect ⇒O Poor	Workmanship	O Procedure not	followed O Poor Co	onstruction Procedures	
☐ Material							
				on to the construction	or fabrication site? omplete d-f, if known	O Yes O No O No	
					ompiete a-i, ii known	O 140	
d. Date of test: e. Time held at te			<u>/ /</u> day <u>/ /</u> · / hr.	<u></u>			
					PSIG		
F6 – EQUIPMENT OR OF							
20. Malfunction of Co			O) (alica - (O landaria - C	December December	O Other:	
_					_		
I —	, Broke	en Pipe Coupling	⇒ O Nipples 0	O Valve Threads (O Mechanical Coupling	s O Other:	
22. L Leaking Seals							
23. Incorrect Operation							
· '		ate Procedures	O Inadequate Safe	ety Practices O Fa	ilure to Follow Procedu	res O Other:	
• •				-	/ / / Alcoho		
						person involved: //_/	
	voivea	iii iiiciderit quaiii	nied per OQ fule?	O res O No	a. Hours on duty for p	person involved. <u>/ / /</u>	
F7 – OTHER							
24. Miscellaneous, de	escribe):					
25. Unknown	0		Lada alla saga aga a	/- h .: '(l	tal and the standards	a Canada a sa	
O Investigation	Comp	piete O Still (Inder investigation ((submit a suppiemen	tal report when investige	ation is complete)	
PART G – NARRATIVE D	ESCR	IPTION OF FAC	TORS CONTRIBUT	ING TO THE EVENT	(Attach additional	sheets as necessary)	
					,	37	

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NOTICE: This report is required by 49 CFR Part 191. Failure to report can result in a civil penalty not to exceed \$25,000 for each violation for each day that such violation persists except that the maximum civil penalty shall not exceed \$500,000 as provided in 49 USC 1678.

Form Approved OMB No. 2137-0522

U.S. Department of Transportation Pipoline and Hazardous Materials Safety Administration

INCIDENT REPORT - GAS TRANSMISSION AND GATHERING SYSTEMS

Repo	ort Date	_
No.		
	(DOT Use Only)	

INST	RUC	101T	NS

Important: Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the Office Of Pipeline Safety Web Page at http://ops.dot.gov.

can obtain one from the Office Of Pipeline						
	Original Report □ Supplemental Report □ Final Report					
Operator Name and Address						
a. Operator's 5-digit Identification Number (when known) / / / / / / /						
b. If Operator does not own the pipeline, enter Owner's 5-digit Ide	· ———					
c. Name of Operator						
d. Operator street address						
e. Operator address						
	5. Consequences (check and complete all that apply)					
2. Time and date of the incident	a. Fatality Total number of people: / / / /					
/ / / / / / / / / / / / / / / / / / /	Employees: / / / / General Public: / / / /					
3. Location of incident	Non-employee Contractors: / / / /					
a	b. Injury requiring inpatient					
Nearest street or road b	hospitalization Total number of people: / / /					
City and County or Parrish	Employees: / / / / General Public: / / / /					
CState and Zip Code	Non-employee Contractors: / / / /					
d. Mile Post/Valve Station	c. Property damage/loss (estimated) Total \$					
e. Survey Station No.	Gas loss \$ Operator damage \$					
f. Latitude: Longitude:	Public/private property damage \$					
(if not available, see instructions for how to provide specific location)	d. Release Occurred in a 'High Consequence Area' ———————————————————————————————————					
g. Class location description Onshore: O Class 1 O Class 2 O Class 3 O Class 4	e. ☐ Gas ignited – No explosion f. ☐ Explosion					
	g. □ Evacuation (<i>general public only)</i> / / / / / people					
Offshore: O Class 1 (complete rest of this item)	Reason for Evacuation:					
Area Block #	O Emergency worker or public official ordered, precautionary O Threat to the public O Company policy					
State $I I I$ or Outer Continental Shelf \Box	6. Elapsed time until area was made safe:					
h. Incident on Federal Land other than Outer Continental Shelf O Yes O No	/ / / hr. / / min.					
i. Is pipeline Interstate O Yes O No	7. Telephone Report					
4. Type of leak or rupture						
O Leak: OPinhole OConnection Failure (complete sec. F5)	NRC Report Number month day year 8. a. Estimated pressure at point and time of incident:					
O Puncture, diameter (inches)	8. a. Estimated pressure at point and time of incident: PSIG					
O Rupture: O Circumferential – Separation	b. Max. allowable operating pressure (MAOP): PSIG					
O Longitudinal	c. MAOP established by 49 CFR section:					
Tear/Crack, length (inches)	☐ 192.619 (a)(1) ☐ 192.619 (a)(2) ☐ 192.619 (a)(3)					
- Propagation Length, total, both sides (feet)	☐ 192.619 (a)(4) ☐ 192.619 (c)					
O N/A	d. Did an overpressurization occur relating to the incident? OYes O No					
O Other:	_					
PART B – PREPARER AND AUTHORIZED SIGNATURE	1					
	Area Code and Telephone Number					
(type or print) Preparer's Name and Title						
	Area Code and Facsimile Number					
Preparer's E-mail Address	, and dead did I dominio Hamber					
	Date Area Code and Telephone Number					
Authorized Signature (type or print) Name	and Title					

Form PHMSA F 7100.2 (01-2002)

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PART C - ORIGIN OF THE INCIDENT	
1. Incident occurred on O Transmission System O Gathering System O Transmission Line of Distribution System 2. Failure occurred on O Body of pipe O Pipe Seam O Joint O Component O Other:	3. Material involved (pipe, fitting, or other component) ○ Steel ○ Plastic (If plastic, complete all items that apply in a-c) Plastic failure was: □ a.ductile □ b.brittle □ c.joint failure ○ Material other than plastic or steel: 4. Part of system involved in incident ○ Pipeline ○ Regulator/Metering System ○ Compressor Station ○ Other: 5. Year the pipe or component which failed was installed: / / / / /
PART D – MATERIAL SPECIFICATION (if applicable)	PART E - ENVIRONMENT
1. Nominal pipe size (NPS) !	1. Area of incident O In open ditch O Under pavement O Above ground O Under ground O Under water O Inside/under building O Other: 2. Depth of cover: inches
	in year <u>/ / / / /</u>
	nbered causes in this section. Check the box to the left of the primary cause cle in each of the supplemental items to the right of or below the cause you for this form for guidance.
a. Pipe Coating b. Visual Exa O Bare O Localiz O Coated O Genera O Other:	
O No O Yes, Year Protect 2. ☐ Internal Corrosion e. Was pipe previously damaged in the	tion Started: / / / / / ne area of corrosion?
	ior to incident: / / / / years / / / months
F2 – NATURAL FORCES	or to incident: <u> years </u> months
3. ☐ Earth Movement ⇒ O Earthquake O Subsidence 4. ☐ Lightning 5. ☐ Heavy Rains/Floods ⇒ O Washouts O Flotation 6. ☐ Temperature ⇒ O Thermal stress O Frost heaven	ce O Landslide O Other:
3. ☐ Earth Movement ⇒ O Earthquake O Subsidence 4. ☐ Lightning 5. ☐ Heavy Rains/Floods ⇒ O Washouts O Flotation 6. ☐ Temperature ⇒ O Thermal stress O Frost heav 7. ☐ High Winds F3 - EXCAVATION	O Mudslide O Other: O Mudslide O Scouring O Other: O Frozen components O Other:
3. ☐ Earth Movement ⇒ O Earthquake O Subsidence 4. ☐ Lightning 5. ☐ Heavy Rains/Floods ⇒ O Washouts O Flotation 6. ☐ Temperature ⇒ O Thermal stress O Frost heaven	ce O Landslide O Other: O Mudslide O Scouring O Other: ve O Frozen components O Other: of Third Party er than Operator/subcontractor
3. ☐ Earth Movement ⇒ O Earthquake O Subsidence 4. ☐ Lightning 5. ☐ Heavy Rains/Floods ⇒ O Washouts O Flotation 6. ☐ Temperature ⇒ O Thermal stress O Frost heave 7. ☐ High Winds F3 - EXCAVATION 8. ☐ Operator Excavation Damage (including their contractors) / Notice 9. ☐ Third Party Excavation Damage (complete a-d) a. Excavator group O General Public O Government O Excavator othe b. Type: O Road Work O Pipeline O Water O Electronic Country Cou	O Mudslide O Scouring O Other:
3. ☐ Earth Movement ⇒ O Earthquake O Subsidence 4. ☐ Lightning 5. ☐ Heavy Rains/Floods ⇒ O Washouts O Flotation 6. ☐ Temperature ⇒ O Thermal stress O Frost heave 7. ☐ High Winds F3 - EXCAVATION 8. ☐ Operator Excavation Damage (including their contractors) / Notes of the excavator group O General Public O Government O Excavator othe b. Type: O Road Work O Pipeline O Water O Electron O Other: □ C. Did operator get prior notification of excavation activity? ○ Notification received: / / / motification received: / / / motification received from: O one Call Systems of the excavation with the excavation activity? ○ No O Yes: Date received: / / / motification received from: O one Call Systems of the excavation with the excavation activity? ○ No O Yes: (If Yes, check applicable items i – iv) i. Temporary markings: O Flags O Sii. Permanent markings: O Yes O No iii. Marks were (check one) O Accurate of iv. Were marks made within required time? OF THER OUTSIDE FORCE DAMAGE	O Mudslide O Scouring O Other: O Mudslide O Scouring O Other: Ve O Frozen components O Other: Other
3. ☐ Earth Movement ⇒ O Earthquake O Subsidence 4. ☐ Lightning 5. ☐ Heavy Rains/Floods ⇒ O Washouts O Flotation 6. ☐ Temperature ⇒ O Thermal stress O Frost heave 7. ☐ High Winds F3 - EXCAVATION 8. ☐ Operator Excavation Damage (including their contractors) / Notice 9. ☐ Third Party Excavation Damage (complete a-d) a. Excavator group O General Public O Government O Excavator othe b. Type: O Road Work O Pipeline O Water O Election O Other: c. Did operator get prior notification of excavation activity? O Notology Date received: /// / motification received from: O one Call Systems of the complete of the	O Mudslide O Scouring O Other: O Mudslide O Scouring O Other: Ve O Frozen components O Other: Other
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F5 – MATERIAL AND WI	LDS						
Material							
14. Body of Pipe	\Rightarrow	O Dent	O Gouge	O Wrinkle Bend	O Arc Burn	O Other:	
15. Component	\Rightarrow	O Valve	O Fitting	O Vessel	O Extruded Outlet	O Other:	
16. D Joint	\Rightarrow	O Gasket	O O-Ring	O Threads		O Other:	
Weld							
17. 🗖 Butt	\Rightarrow	O Pipe	O Fabrication			O Other:	
18. D Fillet	\Rightarrow	O Branch	O Hot Tap	O Fitting	O Repair Sleeve	O Other:	
19. Pipe Seam	\Rightarrow	O LF ERW	O DSAW	O Seamless	O Flash Weld		
		O HF ERW	O saw	O Spiral		O Other:	
0			· · · · · · · · · · · · · · · · · · ·				
Complete a-g if you		ate any cause	э іп раπ ⊢5.		=		
a. Type of failure		Defect ⇒O Poor	\	O Brandura and	followed O Peer Co	anaturation Decardings	
_			vvorkmansnip	O Procedure not	rollowed O Poor Co	onstruction Procedures	
☐ Materia			ined in transportation	on to the construction	or fabrication site?	O Yes O No	
					omplete d-g O No	5 100 5 110	
d. Date of test:		<u>/ /</u> mo. /	/ / day / /	<u>/</u> yr.			
e. Test medium:	0	Water O Nat	ural Gas O Inert	Gas O Other:			
f. Time held at te	st pres	ssure: <u>/ /</u>	/ hr.				
g. Estimated test	press	ure at point of inc	ident:		_ PSIG		
F6 – EQUIPMENT AND (PERA	TIONS					
20. Malfunction of Co	ntrol/F	Relief Equipment	\Rightarrow O Valve	O Instrumentation C	Pressure Regulator	O Other:	
21. Threads Stripped	, Broke	en Pipe Coupling	⇒ O Nipples (O Valve Threads (O Mechanical Coupling	s O Other:	
22. Ruptured or Leak	ing Se	al/Pump Packing					
23. Incorrect Operati		ata Dragaduras	O Imadaguata Caf	oti Drasticas O Fo	ilura ta Callaur Dragadu	roo Othori	
1					/ Alcohol test: /	res O Other:	
c. Were most se				O Yes O No		d. Hours on duty: / / /	
F7 – OTHER	noi en	ipioyee(s) irivoive	ed quaimed?	O res O No		a. Hours on duty. <u>I I I</u>	
24. Miscellaneous, d	o ooriba	χ					
25. Unknown	escribe	.					
O Investigation	Comr	olete O Still L	Inder Investigation	(submit a supplemen	tal report when investig	ation is complete)	
			gattori	(
PART G - NARRATIVE [ESCR	RIPTION OF FAC	TORS CONTRIBUT	TING TO THE EVENT	(Attach additional	sheets as necessary)	
i .							

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