

From: Haine, Steven K.  
Sent: 2/25/2014 5:32:38 PM  
To: Doll, Laura (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=LRDD)  
Cc: Bruno, Kenneth (kenneth.bruno@cpuc.ca.gov)  
Bcc:  
Subject: Outstanding items related to Aldyl A meeting

Laura:

Just for the record, Charles and I went over our respective notes and came to agreement that the following additional items were requested during the meeting in addition to DR2:

1. Documentation on Jana Aldyl A prioritization model
2. Aldyl A consultant report (GTI analysis on Cupertino incident)
3. SGA leak model documentation/overview
4. Provide some examples of lab analysis reports on failed ALDYL-A pipe, material properties report
5. Pre-1940 steel replacement rate
6. List of Aldyl A non-dig-in leaks, incidents, reported, non-reportable
7. Spreadsheet of MPR, Aldyl A
8. Excel spreadsheet of miles of pipes by year Raymond showed us during the meeting.

I also sent Raymond and Redacted an email, but haven't received a response yet:

**From:** Haine, Steven K.  
**Sent:** Tuesday, February 25, 2014 3:07 PM  
**To:** Redacted

**Subject:** FW: question on Jana calculator results

Redacted

Could you please help me get the answer to the following question I sent to Raymond? He may be out of the office.

The more I look at the numbers, the more I think the probabilities seem awfully high to be annual probabilities of failure. I just want to double-check. Thanks.

Steve Haine

**From:** Haine, Steven K.  
**Sent:** Monday, February 24, 2014 3:54 PM  
**To:** Thierry, Raymond ([RXT5@pge.com](mailto:RXT5@pge.com))  
**Subject:** question on Jana calculator results

Raymond:

When I asked Redacted to demo the calculator developed by Jana, the results of probabilities were displayed. Were the results annual failure probabilities or cumulative failure probabilities?

For example:

LDIW

Soil temp: 60 deg. F

Installation year: 1972

Operating pressure: 55 PSI

Displayed probability in 2015 is 0.2585

Is 0.2585 the probability of failure in year 2015? Or is it the probability of failure developing sometime between 1972 and 2015?

**From:** Bruno, Kenneth  
**Sent:** Tuesday, February 25, 2014 5:17 PM  
**To:** Haine, Steven K.; Doll, Laura  
**Subject:** RE: DIMP meeting on 2/21/14

Steve – Just so we're being clear with Laura, there were additional requests made that aren't being requested below.

**From:** Haine, Steven K.  
**Sent:** Tuesday, February 25, 2014 5:15 PM  
**To:** Doll, Laura  
**Cc:** Bruno, Kenneth  
**Subject:** RE: DIMP meeting on 2/21/14

Redacted said he'd check with Raymond's team and let me know about the progress.

**From:** Doll, Laura [mailto:LRDD@pge.com]  
**Sent:** Tuesday, February 25, 2014 5:11 PM  
**To:** Haine, Steven K.  
**Cc:** Bruno, Kenneth  
**Subject:** RE: DIMP meeting on 2/21/14

That makes me happy – thanks Steve!

Did we agree on a date when we will get you this info?

**From:** Haine, Steven K. [mailto:steven.haine@cpuc.ca.gov]  
**Sent:** Tuesday, February 25, 2014 5:08 PM  
**To:** Doll, Laura  
**Cc:** Bruno, Kenneth  
**Subject:** RE: DIMP meeting on 2/21/14

Laura:

Sorry for jumping in late. I spoke with [Redacte] after Ken sent the email and [Redacte] and I are in agreement on the outstanding items now. There is no need for you to do any further follow-up at this point. Thanks.

Steve

**From:** Doll, Laura [mailto:LRDD@pge.com]  
**Sent:** Tuesday, February 25, 2014 5:05 PM  
**To:** Bruno, Kenneth

**Cc:** Haine, Steven K.  
**Subject:** RE: DIMP meeting on 2/21/14

Here is what I think we think the list is – trying to confirm with Redacte but this is a list that Raymond Thierry had.

Let us know if it is consistent with your intent. Thanks -- Laura

1. Miles of pre-1940 steel mains
- 2a. Miles of mains using Aldyl A pipelines manufactured before 1970
- 2b. Miles of mains using non-Aldyl A polyethylene pipelines manufactured before 1970
- 3a. Miles of mains using Aldyl A pipelines manufactured from 1970 to 1972
- 3b. Miles of mains using non-Aldyl A polyethylene pipelines manufactured from 1970 to 1972
- 3c. Miles of mains in 3a that were replaced in years 2011, 2012, and 2013, plus projected annual replacement rates for years 2014 to 2020.
4. Miles of mains using Aldyl A pipelines known to have low ductile inner wall characteristics that can cause slow crack growth.

If the answers to Question 3a and Question 4 are different, please explain the difference in terms of resin types and manufacturer source.

- 5a. Miles of mains using Aldyl A pipelines manufactured prior to 1970
- 5b. Miles of mains using non-Aldyl A polyethylene pipelines manufactured prior to 1970
- 6a. Miles of mains using Aldyl A pipelines manufactured from 1973 to 1983
- 6b. Miles of mains using non-Aldyl A polyethylene pipelines manufactured from 1973 to 1983
- 7a. Miles of mains using Aldyl A pipelines manufactured from 1984 onward
- 7b. Miles of mains using non-Aldyl A polyethylene pipelines manufactured from 1984 onward
- 8a. Number of services using Aldyl A pipelines manufactured from 1970 to 1972
- 8b. Number of services using non-Aldyl A polyethylene pipelines manufactured from 1970 to

1972

9. Number of services known to have low ductile inner wall characteristics that can cause slow crack growth.

If the answers to Question 8a and Question 9 are different, please explain the difference in terms of resin types and manufacturer source.

10a. Number of services using Aldyl A pipelines manufactured prior to 1970

10b. Number of services using non-Aldyl A polyethylene pipelines manufactured prior to 1970

11a. Number of services using Aldyl A pipelines manufactured from 1973 to 1983

11b. Number of services using non-Aldyl A polyethylene pipelines manufactured from 1973 to 1983

12a. Number of services using Aldyl A pipelines manufactured from 1984 onward

12b. Number of services using non-Aldyl A polyethylene pipelines manufactured from 1984 onward

13. Leak rates for items 1 to 12 individually above over the last year, last 5 years, last 10 years, and over the lifetime of the pipelines.

**From:** Bruno, Kenneth [<mailto:kenneth.bruno@cpuc.ca.gov>]

**Sent:** Tuesday, February 25, 2014 1:37 PM

**To:** Doll, Laura

**Cc:** Haine, Steven K.

**Subject:** DIMP meeting on 2/21/14

Hi Laura I hope you're doing well. We issued a few verbal data requests to the DIMP team we met with last Friday 2/21/14. I believe Redacted was the person writing down the requests. Can you send me a copy of what he wrote down to ensure consistency with our notes? Thanks,

Kenneth Bruno

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