

**SAN DIEGO GAS & ELECTRIC COMPANY
SOUTHERN CALIFORNIA GAS COMPANY**

A.15-09-013

**CERTIFICATE OF PUBLIC CONVENIENCE & NECESSITY FOR THE
PIPELINE SAFETY & RELIABILITY PROJECT**

DATA REQUEST SED-01

Date Requested: January 26, 2016

Date Responded: February 10, 2016

SED request additional information on Line 1600 proposed replacement project. Please provide the following information:

QUESTION 1:

Long Seam type for Line 1600 pipeline/segments

RESPONSE 1:

Electric Flash Weld (EFW), Electric Resistance Weld (ERW) and seamless pipe.

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QUESTION 2:

Line 1600 Segments in HCA with long seam type

RESPONSE 2:

HCA Name	Longitudinal Seam Type
4000153	ERW, EFW
4001559	EFW
4000154	ERW, EFW
4000155	ERW, EFW
4000156	ERW, EFW
4000157	ERW, EFW
4000159	ERW, EFW
4000160	ERW, EFW

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QUESTION 3:

Diagram of Hydrostatically tested segments

RESPONSE 3:

SDG&E and SoCalGas will provide a response on 2/11/2016.

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QUESTION 4:

Diagram of Pressure tested Segments

RESPONSE 4:

SDG&E and SoCalGas will provide a response on 2/11/16.

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QUESTION 5:

Maximum Hydrostatic test pressure

RESPONSE 5:

1,480 psig.

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QUESTION 6:

Segments that are not Hydrostatically or Pressure tested

RESPONSE 6:

The segments identified in question 4 above comprise approximately 3.9 miles of pipe. The remaining 46.3 miles of Pipeline 1600 segments have not been pressure tested.

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QUESTION 7:

MAOP of pipeline/ segments

RESPONSE 7:

640 psig.

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QUESTION 8:

Highest MOP of pipeline/ segments

RESPONSE 8:

640 psig.

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QUESTION 9:

Current MOP of pipeline/ segments (12 months average of actual maximum operating pressure)

RESPONSE 9:

600 psig is the average hourly maximum recorded pressure for the period between December 1, 2014 and December 1, 2015. The MOP is 640 psig as stated in response to Question 8 above.

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Date Responded: February 10, 2016

QUESTION 10:

All Integrity assessment test records of line 1600

RESPONSE 10:

Integrity assessment test record files for Pipeline 1600 are embedded in the table below and they are sorted by assessment date and method. **The attached files below contain Confidential Information provided pursuant to Public Utilities Code Section 583 and General Order 66-C. Some information provided, such as GIS locational coordinates, street names, anomaly identification, and other specific data is highly sensitive from a security perspective (for government eyes only).**

Integrity Assessment	Description	Assessment Date	File
ECDA	N/A	3/3/2007	 1600_ECDA_Indirect InspectionReport.pdf
ILI – Phase 1	Axial MFL	12/5/2012	 1600_ILI_Phase1_A MFL_FinalReport.pdf
	Circumferential MFL	2/6/2013	 1600_ILI_Phase1_C MFL_FinalReport.pdf
ILI – Phase 2	Axial MFL	12/19/2013	 1600_ILI_Phase2_A MFL&CMFL_FinalRepc
	Circumferential MFL	3/20/2014	

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Date Responded: February 10, 2016

QUESTION 11:

List of all defects, anomalies and issues detected from previous inspections

RESPONSE 11:

Files for defects and anomalies detected from previous inspections for Pipeline 1600 are embedded in the table below and they are sorted by assessment date and method. **The attached files below contain Confidential Information provided pursuant to Public Utilities Code Section 583 and General Order 66-C. Some information provided, such as GIS locational coordinates, street names, anomaly identification, and other specific data is highly sensitive from a security perspective (for government eyes only).**

Integrity Assessment	Description	Assessment Date	File
ECDA	N/A	3/3/2007	 1600_ECDA_Survey Profiles.pdf
ILI – Phase 1	Axial MFL	12/5/2012	 1600_ILI_Phase1_A MFL_Tally.pdf
	Circumferential MFL	2/6/2013	 1600_ILI_Phase1_C MFL_Tally.pdf
ILI – Phase 2	Axial MFL	12/19/2013	 1600_ILI_Phase2_A MFL&CMFL_Tally.pdf
	Circumferential MFL	3/20/2014	

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QUESTION 12:

List of repairs and type made on Line 1600

RESPONSE 12:

Refer to embedded file (below) for a list of repairs on Pipeline 1600.



Line 1600 Repair
Listing.pdf

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QUESTION 13:

Planned Maximum MOP (12 months average of actual maximum operating pressure)
after de-rating L1600 to distribution pipeline

RESPONSE 13:

We plan to operate L1600 at a service level of 320 psig.

As this is a future plan, no actual 12 month average data is available.

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QUESTION 14:

Any planned segment hydrotest/ pressure tests of the de-rated L1600

RESPONSE 14:

We have no plans to perform additional pressure test.

Our plan is to de-rate Line 1600 to a service level of 320 psig. This will allow for the existing operating pressure to act as a satisfactory pressure test for the newly de-rated pipeline because the existing service level is 640 psig which is 1.5x over our intended new operating level.

Implementing this approach will allow a cost avoidance, as further pressure testing would not be required.

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DATA REQUEST SED-01

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QUESTION 15:

Summary of inspection that was proposed for 2015 Fourth Quarter

RESPONSE 15:

The ILI for Phase 3 of Pipeline 1600 was completed on December 10, 2015. The inspection was successful and the final report is anticipated to be received in mid to late February.

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QUESTION 16:

Reason for moving this line from Phase 1A to Phase 1B of PSEP

RESPONSE 16:

Line 1600 was not moved from Phase 1A to Phase 1B. Line 1600 has always been identified as a Phase 1B project per the PSEP Decision Tree, box number 6. The PSEP Decision Tree (box number 6) addresses pipelines in Phase 1B that have not been pressure tested, and would be addressed in Phase 1A if new infrastructure was not required before testing in order to maintain system reliability and avoid adverse customer impacts. Per the Decision Tree, these pipelines receive additional inspection to validate safe operation until the new infrastructure is in place. (See Application 11-11-002, Amended Direct Testimony of Douglas Schneider at 60-61 and Rebuttal Testimony of David Bisi at 5-6).

Please Note: The PSEP Decision Tree calls for Phase 1B pipelines in box 6 to be in-line inspected using circumferential or transverse flux inspection tools. These inspections have been completed. Additionally, after the new infrastructure is built, rather than pressure testing line 1600 (much of which is A.O. Smith flash welded pipe) as identified in the PSEP Decision Tree, SDG&E/SoCalGas are proposing to permanently lower the MAOP of Line 1600 and convert it to distribution service. The pressure reduction will achieve an equivalent safety margin as pressure testing and is a significant cost avoidance.

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QUESTION 17:

What factors made it impractical to hydrotest or TFI and Hydrotest

RESPONSE 17:

The ability to manage customer impacts during a hydrotest combined with the age and characteristics of line 1600 are the primary factors for replacing with a new line and then derating line 1600 rather than hydrotesting line 1600 and keeping as a Transmission asset. This question is addressed in more detail in Application 11-11-002.

Regarding TFI (Circumferential MFL): Pipeline 1600 is approximately 50.2 miles in length and ILI was performed in three (3) separate phases as listed in the table below:

Phase	Length (miles)	ILI tools	Diameter (inches)	Longitudinal Seam Type
1	29.2	Axial MFL Deformation Circumferential MFL	16	ERW, EFW
2	20.4	Axial MFL Deformation Circumferential MFL	16	ERW, EFW
3	0.6	Axial MFL Laser Deformation Sensor	14	Seamless

SDG&E successfully completed ILI with a Circumferential MFL tool for Phase 1 and Phase 2 of Pipeline 1600 (49.6 miles). Due to a change in pipe diameter and the presence of seamless pipe, a Circumferential MFL tool was not utilized for Phase 3.

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DATA REQUEST SED-01 Q3-4

Date Requested: January 26, 2016

Date Responded: February 11, 2016

QUESTION 3:

Diagram of Hydrostatically tested segments

RESPONSE 3:

See attached diagram of hydrostatically tested segments for L-1600. **The attached file below contains Confidential Information provided pursuant to Public Utilities Code Section 583 and General Order 66-C.**



1600_Hydro_Pressure
Test_Feb11.pdf

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DATA REQUEST SED-01 Q3-4

Date Requested: January 26, 2016

Date Responded: February 11, 2016

QUESTION 4:

Diagram of Pressure tested Segments

RESPONSE 4:

See attached diagram of pressure tested segments for L-1600. **The attached file below contains Confidential Information provided pursuant to Public Utilities Code Section 583 and General Order 66-C.**



1600_All_PressureTest_Feb11.pdf

Attachment to SED DR1, Question 10

Action_Description	Action_Comp_Date
Weld Band or Sleeve	10/29/2014
Grinding	10/29/2014
Grinding	10/25/2014
Cylindrical Replacement	10/25/2014
Weld Band or Sleeve	10/25/2014
Grinding	10/25/2014
Weld Band or Sleeve	10/10/2014
Weld Band or Sleeve	10/7/2014
Grinding	10/7/2014
Grinding	10/6/2014
Cylindrical Replacement	9/19/2014
Grinding	9/19/2014
Cylindrical Replacement	9/16/2014
Cylindrical Replacement	9/16/2014
Cylindrical Replacement	9/16/2014
Weld Band or Sleeve	9/5/2014
Grinding	8/27/2014
Grinding	8/19/2014
Weld Band or Sleeve	7/29/2014
Grinding	7/29/2014
Cylindrical Replacement	7/11/2014
Weld Band or Sleeve	6/25/2014
Grinding	6/24/2014
Grinding	6/20/2014
Grinding	6/9/2014
Weld Band or Sleeve	6/2/2014
Grinding	5/30/2014
Grinding	5/30/2014
Weld Band or Sleeve	5/27/2014
Weld Band or Sleeve	5/13/2014
Weld Band or Sleeve	5/13/2014
Weld Band or Sleeve	5/12/2014
Grinding	5/7/2014
Weld Band or Sleeve	5/2/2014
Grinding	5/2/2014
Cylindrical Replacement	5/2/2014
Cylindrical Replacement	5/2/2014
Weld Band or Sleeve	5/1/2014
Weld Band or Sleeve	5/1/2014
Grinding	5/1/2014
Weld Band or Sleeve	4/28/2014
Grinding	4/25/2014
Grinding	4/24/2014
Weld Band or Sleeve	8/27/2013
Grinding	8/27/2013

Cylindrical Replacement	8/6/2013
Grinding	8/6/2013
Cylindrical Replacement	7/15/2013
Grinding	7/15/2013
Cylindrical Replacement	7/11/2013
Cylindrical Replacement	7/9/2013
Weld Band or Sleeve	6/12/2013
Weld Band or Sleeve	6/12/2013
Weld Band or Sleeve	6/11/2013
Weld Band or Sleeve	6/5/2013
Weld Band or Sleeve	6/3/2013
Weld Band or Sleeve	5/24/2013
Weld Band or Sleeve	5/15/2013
Weld Band or Sleeve	5/8/2013
Weld Band or Sleeve	4/26/2013
Grinding	4/23/2013
Weld Band or Sleeve	4/23/2013
Weld Band or Sleeve	4/15/2013
Weld Band or Sleeve	4/9/2013
Weld Band or Sleeve	4/9/2013
Weld Band or Sleeve	4/4/2013
Grinding	4/4/2013
Weld Band or Sleeve	4/1/2013
Weld Band or Sleeve	4/1/2013
Weld Band or Sleeve	3/15/2013
Cylindrical Replacement	1/17/2013
Grinding	10/28/2006
Grinding	2/1/2006
Wire-brush	4/27/2005
Weld Band or Sleeve	4/4/1995
Grinding	5/14/1993
Weld Band or Sleeve	1/28/1992
Weld Band or Sleeve	7/16/1991
Grinding	9/13/1990
Grinding	1/28/1988
Weld Band or Sleeve	5/23/1984
Grinding	8/30/1982
Grinding	8/5/1982
Weld Band or Sleeve	4/12/1982
Weld Band or Sleeve	5/1/1981
Grinding	1/29/1979
Grinding	7/8/1977
Grinding	6/3/1976
Grinding	1/28/1975
Grinding	3/27/1974
Grinding	unk
Weld Band or Sleeve	unk