PG&E Data Request No.:	NTSB_055-001		
PG&E File Name:	San Bruno GT Line Incident_DR_NTSB_055-001		
Request Date:	March 16, 2011	Requesting Party:	NTSB
Date Sent:	March 25, 2011	Requestor:	Operations (Chhatre/ Nicholson)

QUESTION 1

For Lines 101 and 109 please provide the following information: length and configuration, date installed, pipe specification (e.g., diameter, API grade, wall thickness, manufacturer, type of seam, coating, CP details), past leak and repair history, MAOP/MOP, results of any mechanical testing done on the pipe material over the years, past pressure test details and girth and seam weld X-ray results as applicable.

ANSWER 1

Attached please find two spreadsheets for L101 and L109 with the pipeline data requested (see L101-PFL-STPR-10Dec2010-PipeOnly-NTSB18Mar11.xls and L109-PFL_REV01-dlhf-28Oct2010-PipeOnly-NTSB18Mar11.xls). In addition, images of x-ray testing data have been provided for L101 and L109.

Also included is an ATC Corporation report on measurement mechanical testing prepared on October 15, 2010.

The MAOP for Line 101 is 400 psig between Milpitas Terminal Station and the San Francisco Airport (SFO) tap, 396 psig between the SFO tap and the Lomita Park meter station, and 275 psig between the Lomita Park meter station and the San Francisco Gas Load Center. The MAOP for Line 109 is 375 psig between Milpitas Terminal Station and Sullivan Ave. regulator station and 150 psig between the Sullivan Ave. regulator station and the San Francisco Gas Load Center.

The MOP of Line 101 between Milpitas Terminal Station and the Lomita Park meter station is normally 375 psig, but the pressure has been reduced 20% to 300 psig following the San Bruno incident. The MOP of Line 101 from the Lomita Park meter station to the San Francisco Gas Load Center is 145 psig. The MOP of Line 109 between Milpitas Terminal Station and the Sullivan Ave. regulator station is normally 375 psig, but the pressure has been reduced 20% to 300 psig following the San Bruno Incident. The MOP of Line 109 between the Sullivan Ave. regulator station and the San Bruno Incident. The MOP of Line 109 between the Sullivan Ave. regulator station and the San Bruno Incident. The MOP of Line 109 between the Sullivan Ave. regulator station and the San Bruno Incident.

SAN BRUNO_DR_NTSB_055-001

Both lines are under active cathodic protection and have rectifiers which are read annually, and PG&E takes pipe-to-soil potential readings every other month. The lines have had several External Corrosion Direct Assessments (ECDAs) over the past few years as follows:

L-101 - MP Ranges Assessed in 2004 (Also will be done in 2011)

0.000-0.330 9.000-9.300 9.807-12.400 12.450-12.612 12.835-16.641 16.657-27.740 27.772-32.172 32.175-32.493 33.064-33.414 33.420-33.440 33.444-33.509

L-101 - MP Ranges Assessed in 2006

0.651-2.000 2.450-2.490 9.300-9.436

L101 - MP Ranges Assessed in 2008

2.000-2.450 2.490-2.777 4.413-7.220 8.620-9.000 33.840-33.904 33.936-33.960 34.060-34.244 34.319-37.021 38.316-38.733 38.854-39.074 39.230-39.737 39.809-41.701 41.990-42.170 42.218-44.610

SAN BRUNO_DR_NTSB_055-001

L-109 - MP Ranges Assessed in 2006

0.000-1.000 28.056-28.094 32.367-32.410 36.435-36.506 41.620-41.900

L-109 - MP Ranges Assessed in 2009

3.113-3.318 38.860-39.443 40.015-41.304 41.364-41.620

L-109 - MP Ranges Assessed in 2003 & 2009

11.500-14.671 16.012-16.191 16.329-16.796 17.010-19.000

L-109 - MP Ranges Assessed in 2004 & 2009

0.000-0.263 1.000-1.925 2.064-2.926 3.439-6.967 7.462-10.909 10.910-11.500 21.630-21.758 21.831-23.251 33.429-34.045 36.506-36.733 37.067-38.319 38.347-38.860 41.900-42.533 42.556-42.990 43.000-43.477 43.492-44.206 44.432-45.000 45.160-52.710

SAN BRUNO_DR_NTSB_055-001

L-109 - MP Ranges Assessed in 2003 and 2010

28.094-28.510 32.410-32.600

L-109 - MP Ranges Assessed in 2006 & 2009

34.045-34.073 36.733-36.816 36.950-37.067

L-109 - MP Ranges Assessed in 2010

31.655-31.934 32.600-32.771 41.304-41.364

Leak History and Repair:

We have records of three leaks on a body of pipe for Lines 101 and 109. The details are as follow:

Line 101: Leak #99-30059-1, segment 167.1, MP 32.61, OD: 20", found 03/15/1999 and repaired on 4/3/1999, cause: third party damage, repair: welded sleeve, long seam per GIS: SMLS

Line 109: Leak #03-60335 -1, segment 137.5, MP 16.12, OD: 22", found on 12/16/2003 and repaired on 12/17/2003, cause: external corrosion, repair: patch weld, long seam per GIS: SSAW

Line 101: Leak #09-80035-1, segment 191, MP 42.34, OD: 20", found on 11/11/2009 and repaired on 11/13/2009, cause: third party damage, repair: welded sleeve, long seam per GIS: DSAW