

Docket No. SA-534

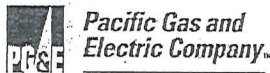
Exhibit No. 2-T

NATIONAL TRANSPORTATION SAFETY BOARD

Washington, D.C.

STANDARD CATHODIC MAINTENANCE REPORT

(4 Pages)



STANDARD CATHODIC PROTECTION MAINTENANCE REPORT

(Form must be completed in Non-erasable Ink)

GT&D
01/09
FO-16-D

A. RECORD INFORMATION

LOCATION PAGE MILL ROAD & JUNIPERO SERRA TO VALVE V - 42.47 (S.F. DIVISION)	CITY <u>Palo Alto, Millbrae Woodside & HMB</u>	CP SYSTEM NO. TRANS LINE 132	
AREA 1	DIVISION PENINSULA	DISTRICT SAN CARLOS	YEAR 2009

B. PIPE-TO-SOIL POTENTIAL MEASUREMENTS (MILLIVOLTS)

TEST LOCATION	BASE DATA	LAST YR. READING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1. ETS JUNIPERO SERRA BLVD		1002	1021		1028		993		937		1032		1021	
2. V-18.46 - SANDHILL ROAD		1036	1071		1008		958		973		1080		1087	
3. PRI REG - SANDHILL ROAD		1019	1043		965		928		985		1038		1083	
4. WOODSIDE ROAD TAP		1022	1053		1007		974		1047		1076		1022	
5. EDGEWOOD ROAD TAP		997	1017		975		938		1056		1082		1167	
6. HALF MOON BAY TAP #132		1036	1041		962		921		1005		1032		1043	
7. HILLCREST DRIVE TAP #109		1075	1032		1046		1073		1131		1242		1236	
8. HILLCREST LINE #132		1221	1164		1025		1041		1223		1339		1317	
9. HALF MOON BAY LINE #109		1052	1028		984		906		946		1038		1107	
DATA RECORDED BY (LAN ID)		MKK6	MKK6		MKK6		TZRO		TZRO		TZRO		TZRO	
DATA RECORDED BY (INITIALS)		JK	JK		JK		TR		TR		TR		TR	
DATE (MONTH/DAY)		11-17	1-7		3-12		5-6		7-3		9-8		11-5	

C. GALVANIC ANODE/RECTIFIER MEASUREMENTS

GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR. READING	INTERFERENCE TEST RECTIFIER 1. _____ AMPS, 2. _____ AMPS, 3. _____ AMPS, 4. _____ AMPS				VOLTS/AMPS							
1. #43-JEFFERSON & CALIF.		3.5A 1.6V												
2. #07-BUNKER HILL DRIVE		2.5A 8.1V									0	3.5A 7.4V		
3. #44-BLACK MOUNTAIN RD		2.5A 5.1V												
4. #40-PAGE MILL ROAD		2.9A 4.3V												
5. 597-PULGAS WATER TEMPLE		3.5A 9.3V												
DATA RECORDED BY (LAN ID)		MKK6									TZRO	TZRO		
DATA RECORDED BY (INITIALS)		JK									TR	TR		
DATE (MONTH/DAY)		3-18									9-13	9-22		

D. RECORD REVIEW

BI-MONTHLY REVIEWED BY (LAN ID)		DKM3	DKM3		DKM3		DKM3		DKM3		SEP4	SEP4	DKM3
BI-MONTHLY REVIEWED BY (INITIALS)		DKM	DKM		DKM		DKM		DKM		SEP	SEP	DKM
DATE (MONTH/DAY)		1-30	1-30		3-31		5-31		7-31		9-30	9-30	11-30

529



STANDARD CATHODIC PROTECTION MAINTENANCE REPORT

(Form must be completed in Non-erasable Ink)

GT&D
01/09
J-16-D

A. RECORD INFORMATION

LOCATION PAGE MILL ROAD & JUNIPERO SERRA TO VALVE V-42.47 (S.F. DIVISION)	CITY <i>PALO ALTO NORTH TO MILLBRAE</i>	CP SYSTEM NO. TRANS LINE 132	FM/PLM#
AREA 1	DIVISION PENINSULA	DISTRICT SAN CARLOS	YEAR 2010

B. PIPE-TO-SOIL POTENTIAL MEASUREMENTS (MILLIVOLTS)

TEST LOCATION	BASE DATA	LAST YR. READING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1. ETS S/S/O JUNIPERO SERRA E/O SANTA MARIA		1021	1058		1021		977		956					
2. V-18.46 - SANDHILL ROAD E/O BRANNER DR		1087	1067		1073		982		958					
3. PRI REG - 2900 SANDHILL ROAD		1083	1032		1017		968		1146					
4. WOODSIDE ROAD TAP @ HWY 280		1072	1022		1081		979		1091					
5. EDGEWOOD CROSSOVER OFF CANADA RD		1167	1056		983		955		887					
6. HALF MOON BAY TAP #132		1093	943		1046		949		908					
7. ETS HILLCREST LINE #132 ON SKYLINE		1317	1157		1242		1063		1085					
DATA RECORDED BY (LAN ID)		TLRO	TLRO		TLRO		TLRO		TLRO					
DATA RECORDED BY (INITIALS)		TR	TR		TR		TR		TR					
DATE (MONTH/DAY)		11-5-09	1-25		3-10		5-10		7-13					

C. GALVANIC ANODE/RECTIFIER MEASUREMENTS

GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR. READING	INTERFERENCE TEST RECTIFIER 1. _____ AMPS, 2. _____ AMPS, 3. _____ AMPS, 4. _____ AMPS				VOLTS/AMPS										
1. #40-PAGE MILL ROAD S/O JUNIPERO SERRA		1.8A 45.2V			1.6A 45.35V												
2. #43 - JEFFERSON & CALIF		3.5A 1.6V			3.5A 12.2V												
3. 597-PULGAS WATER TEMPLE		3.5A 9.5V	3.5A 9.5V		3.5A 9.6V												
4. #07 - BUNKER HILL DR. HWY 280		2.3A 8.0V			2.3A 8.2V												
5. #44 BLK MT. RD / SKYLINE BLVD W/O HAYNE RD		2.5A 6.7V			2.5A 5.4V												
DATA RECORDED BY (LAN ID)		TLRO	TLRO	TLRO	TLRO												
DATA RECORDED BY (INITIALS)		TR	TR	TR	TR												
DATE (MONTH/DAY)		3-12-09	1-22	1-22	3-10												

D. RECORD REVIEW

BI-MONTHLY REVIEWED BY (LAN ID)		DMMS	DMMS		DMMS		RDD8		RDD8					
BI MONTHLY REVIEWED BY (INITIALS)		DM	DM		DM		RD		RD					
DATE (MONTH/DAY)		1-29	1-29		3-31		6/3		8/2					

STANDARD CATHODIC PROTECTION MAINTENANCE REPORT

(Form must be completed in Non-erasable Ink)

A. RECORD INFORMATION

LOCATION HILLSIDE TO SAN ANDREAS	CITY <i>DALY CITY SOUTH TO SAN BRUNO</i>	CP SYSTEM NO. TRANS LINE 132
AREA 1	PENINSULA DIVISION	DISTRICT SAN CARLOS YEAR 2009

B. PIPE-TO-SOIL POTENTIAL MEASUREMENTS (MILLIVOLTS)

TEST LOCATION	BASE DATA	LAST YR. READING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT.	NOV	DEC
1. 1267 MORNINGSIDE IN ALLEY BEHIND SIDEWALK - SPLICE BOX		1517	1466		1127		1383		1222		1123		1417	
2. 1 ST & A ST N/E CRN F/C		1245	1267		1087		1114		1009		1138		1113	
3. ETS 1490 CRESTWOOD IN HEALY STATION 132		1162	1224		1221		1212		1281		1423		1386	
4. SAN ANDREAS STATION AT AIR VENT PIPE		1219	1237		1174		1186		1268		1310		1280	
5.														
DATA RECORDED BY (LAN ID)		MKK6	MKK6		MKK6		TLRO		TLRO		TLRO		TLRO	
DATA RECORDED BY (INITIALS)		WK	WK		WK		TR		TR		TR		TR	
DATE (MONTH/DAY)		11-17	1-7		3-16		5-6		7-3		9-8		11-4	

C. GALVANIC ANODE/RECTIFIER MEASUREMENTS

GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR. READING	INTERFERENCE TEST RECTIFIER 1. _____ AMPS, 2. _____ AMPS, 3. _____ AMPS; 4. _____ AMPS											
			VOLTS/AMPS											
1. 1276 MISSION NEXT TO PG&E TOWER #601		1.5A / 18V												
2. 2230 ROLLINGWOOD IN CORPORATION YARD #602		3.5A / 13.1V												
3.														
DATA RECORDED BY (LAN ID)		MKK6												
DATA RECORDED BY (INITIALS)		WK												
DATE (MONTH/DAY)		11-17												

D. RECORD REVIEW

BI-MONTHLY REVIEWED BY (LAN ID)		DKM3	DKM3		DKM3		DKM3		DKM3		SGP1		DKM3	DKM3
BI MONTHLY REVIEWED BY (INITIALS)		DKM	DKM		DKM		DKM		DKM		SGP		DKM	DKM
DATE (MONTH/DAY)		1-30	1-30		3-31		5-29		7-31		9-30		11-30	11-30

STANDARD CATHODIC PROTECTION MAINTENANCE REPORT

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A. RECORD INFORMATION

LOCATION HILLSIDE TO SAN ANDREAS	CITY <i>DALY CITY SOUTH TO SAN BRUNO</i>	CP SYSTEM NO. TRANS LINE 132
AREA 1	PENINSULA DIVISION	DISTRICT SAN CARLOS YEAR 2010

B. PIPE-TO-SOIL POTENTIAL MEASUREMENTS (MILLIVOLTS)

TEST LOCATION	BASE DATA	LAST YR. READING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
✓ 1. 1267 MORNINGSIDE IN ALLEY BEHIND SIDEWALK - SPLICE BOX		1280	1296		1296 1308 TR		1392		1171					
2. 1 ST & A ST N/E CRN F/C		1386	1436		1127		1068		1257					
3. ETS 1490 CRESTWOOD IN HEALY STATION 132		1113	1121		1387		1262		1064					
4. SAN ANDREAS STATION AT AIR VENT PIPE		1417	1303		1308		1392		1403					
5.														
DATA RECORDED BY (LAN ID)		TRRO	TRRO		TRRO		TRRO		TRRO					
DATA RECORDED BY (INITIALS)		TR	TR		TR		TR		TR					
DATE (MONTH/DAY)		11-4-09	1-25		3-11		5-10		7-13					

C. GALVANIC ANODE/RECTIFIER MEASUREMENTS

GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR. READING	INTERFERENCE TEST RECTIFIER 1. _____ AMPS, 2. _____ AMPS, 3. _____ AMPS, 4. _____ AMPS											
			VOLTS/AMPS											
✓ 1. 1276 MISSION NEXT TO PG&E TOWER #601		1.5A 18V			1.2A 20.6V									
✓ 2. 2230 ROLLINGWOOD IN CORPORATION YARD #602		3.5A 14.6V			3.5A 13.7V									
3.														
DATA RECORDED BY (LAN ID)		TRRO			TRRO									
DATA RECORDED BY (INITIALS)		TR			TR									
DATE (MONTH/DAY)		3-16-09			3-11									

D. RECORD REVIEW

BI-MONTHLY REVIEWED BY (LAN ID)		DMH3	DMH3		DMH3		RDOS		RDOS				
BI MONTHLY REVIEWED BY (INITIALS)		DM	DM		DM		RD		RD				
DATE (MONTH/DAY)		1-29	1-29		3-31		6/3		8/2				