Docket No. SA-534
Exhibit No. 2-T

NATIONAL TRANSPORTATION SAFETY BOARD

Washington, D.C.

STANDARD CATHODIC MAINTENANCE REPORT



(Form must be completed in Non-erasable Ink)

GT&D 01/09 F∩-16-D

					A. RECOR	D INFORMATI	ON							
LOCATION PAGE MILL ROAD & JUNIPERO SERRA TO VALVE V – 42.47 (S.F. DIVISION)					aloAlta	5, Mi	(brae MB	C	P SYSTEM NO. RANS LINE 132	-				
AREA 1	*				7	DIVISION F	PENINSULA		ISTRICT SAN CARLO	9	YEA	R 2009		
, A.		4		B. PIP	E-TO-SOIL POTEN	TIAL MEASU	REMENTS (MILL		7 11 10 1 07 11 07 11 201					
TEST LOCATION	BASE DATA	LAST YR. READING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC-
1. ETS JUNIPERO SERRA BLVD	3 25	(00Z	10/219	×	1028		993		937		1032		1021	
2. V-18.46 – SANDHILL ROAD	· ·	1036	1071		1008		958		973		1080		1087	
3. PRI REG - SANDHILL ROAD	11 - 1	1019	1043		965	i	921		985		1038		1083	
4. WOODSIDE ROAD TAP	L	1022	1053		1007		974	1	1047		1076		1083	
5. EDGEWOOD ROAD TAP		997	1017:		975		938		1056		1082		1167	
6. HALF MOON BAY TAP #132		1036	1041		9.62		921		1005		1032		1093	·
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)	1 .	MIKE	MIKE	4	MKG		TZRO		TLRO		TLRO		TZRO	
DATA RECORDED BY (INITIALS)		M.	OK.		W	135	TR		TPL		TV		TR	
DATE (MONTH/DAY)		11-17	1-7		3-12		5-6		7-3		9-8		11-5-	
T .		j/ Ž	4,	C. GA	LVANIC ANODE/F	ECTIFIER ME	ASUREMENTS				• 0		110	
		LAST YR.	T		TIFIER 1AI			AMDC 45	134ng					
GALVANIC ANODE OR RECTIFIER LOCATION	DATA BASE	READING	, .				AMTS, 3	_AMPS, 4	AMPS DLTS/AMPS TA					
1. #43-JEFFERSON & CALIF.	75	371.60			33/1.6V				X		-0-	3.5 A 7.4 V		
2. #07-BUNKER HILL DRIVE		278.1V	13		238.0v			-	70		-0	7.4V	-	
3. #44-BLACK MOUNTAIN RD	4 4	235.1v	., :		68-01			- f.				-	-	
4. #40-PAGE MILL ROAD	\$ 15°	29,44,3v	1 4		2.26.7v		-	1 · · · · · · · · · · · · · · · · · · ·						
5. 597-PULGAS WATER TEMPLE		33/93v	- 4		3279.5v							-		
DATA RECORDED BY (LAN ID)		MK6			MK6							-		`
DATA RECORDED BY (INITIALS)		1.14.0	1		MED			, 1 ₁		7	ZRO	TLRO		
DATE (MONTH/DAY)		3-18			3-12						TR	TIL		
S. S.	jun 17	13 0	Ī.		2112				is .		9-13	9-22		
*	.erl	ा <u>ं</u> सर्वे स्थान	,			RD REVIEW	,						~	
BI-MONTHLY REVIEWED BY (LAN ID)	Ý.	DMMS	DEURS	**	DEM3		DKM3	2 5	Daus		SGRI	Sapel.	DKW3	
BI MONTHLY REVIEWED BY (INITIALS)		DKME	DAME		DKMC		DEMC	- m			SQP	SAP	Dire	
DATE (MONTH/DAY)		1-30	1-30		3-31	- 1	5-37		7.31		7-30	9-30	11-30	
							5/29		1 71				11/101	



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GT&D 01/09 0-16-D

A. RECORD INFORMATION

LOCATION PAGE MILL ROAD & JUNIPERO SERRA TO VALVE V 42.47 (S.F. DIVISION)				CITY PALO BLTO NOTH TO MILLBRAS					YSTEM NO. NS LINE 132		FM/PL	FM/PLM#			
AREA 1				/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DIVISION, F	ENINSULA	DIST	RICT SAN CARLO	e	YEAR	2010			
5				B. PIP	E-TO-SOIL POTE	NTIAL MEASU	REMENTS (MILLIV	(OLTS)	71101 071110711201						
TEST LOCATION	BASE DATA	LAST YR. READING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	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	TLRU		TIRO		1220		TZRO						
DATA RECORDED BY (INITIALS)		TR	TR		TR.		TR		TR						
DATE (MONTH/DAY)		11-5-09	1-25		3-10	-	5-10		7-13	2					
				C. GA	LVANIC ANODE/	RECTIFIER ME	ASUREMENTS	-							
		LAGTAM	INTERFEREN		TIFIER 1A			MDS 4	AMDO	*****************					
GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR. READING			100		AITH 5, 5A		_AMPS S/AMPS						
1. #40-PAGE MILL ROAD S/O JUNIPERO SERRA		1.8A 45.7V			1.64 45.5V	. 5.									
2. #43 – JEFFERSON & CALIF		3.5A			3.5×1										
3. 597-PULGAS WATER TEMPLE		3.5A 9.5V	D 3.5A		3.5A										
4. #07 – BUNKER HILL DR. HWY 280	***************************************	2.3A 8.0V	7.30		2.30 8.20										
5. #44 BLK MT. RD / SKYLINE BLVD W/O HAYNE RD	•	2.5A 6.7V			2.5A 5.4V										
DATA RECORDED BY (LAN ID)	- 11	TLICO	TLROTERO		TIRO	ris									
DATA RECORDED BY (INITIALS)		TR	TR TR		TR										
DATE (MONTH/DAY)		3-12-09	1-22 1-22		3-10						-				
						ORD REVIEW	1								
BI-MONTHLY REVIEWED BY (LAN ID)		Duris	51447		DUNG		8008		8208			<u>`</u>			
BI MONTHLY REVIEWED BY (INITIALS)		DM	par		DW		RD		20						
DATE (MONTH/DAY)		1-201	(-29		3-31		1613		812						

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GT&D 01/09

					A. RECORD	INFORMATI	ON							
LOCATION HILLSIDE TO SAN ANDREAS				CITY DA	LY CITY	SOUTH-TO	SAW BRU	CI TI	P SYSTEM NO. RANS LINE 132					
AREA 1	ě			PENINSU	JLA	DIVIS	SION	/ DI	ISTRICT SAN CA	RLOS	YE	AR 2009		
				B. PII	PE-TO-SOIL PO	OTENTIAL ME	ASUREMEN	TS (MIL	LIVOLTS)	*****		,		
TEST LOCATION	BASE DATA	LAST YR. READING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	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	
SAN ANDREAS STATION AT AIR VENT PIPE		1219	1237		1174		1186		1268		1310		1280	
5.														
DATA RECORDED BY (LAN ID)		MKG	MX6		MKG		TIRO		1220		TLRO		TZRO	
DATA RECORDED BY (INITIALS)	· j., ·	W	W		1K		The		TR		TR		m	
DATE (MONTH/DAY)	y	11-17	1-7		3-16		5-6		7-3	1.14	9-8		11-4	
	>			C. GALVA	NIC ANODE/R			TS.					,,	
		LAST YR.	INTERFI	ERENCE '	TEST RECT	TIFIER 1.	AM1	PS, 2.	AMPS,	3. 25	AMPS, 4	lAI	MPS	
. GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	READING						VOL	TS/AMPS	popular La maior	im.			
1. 1276 MISSION NEXT TO PG&E TOWER #601		13/84			57.9v					-1700	G		6- 165V	1.5A 18V
2. 2230 ROLLINGWOOD IN CORPORATION YARD #602		3.953.IV			35/4.6V					5. 6			1350	100
3.										3	Tames			
DATA RECORDED BY (LAN ID)		MKG			MKG					77,	7		77 17 17	- 00
DATA RECORDED BY (INITIALS)		WK			NV					ende Services or delices	12		TZRO	TIRO
DATE (MONTH/DAY)		11-17			3-16					7.50	10 m		11-8	TR 11-9
w* 1	-					RD REVIEW					f		110	11 (
BI-MONTHLY REVIEWED BY (LAN ID)		DKM3	D4M3		DX413	-	DKM7		Duus		Sari	T	1) 1943	Svur3
BI MONTHLY REVIEWED BY (INITIALS)		DEME	DKMC		DYMC	-) Krus		Dinc		SGP		J) KUS	Dem
DATE (MONTH/DAY)		1-30	1-30		3-31		5-29		7.31		9-30		11-30	11-38

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GT&D 01/09

A. RECORD INFORMATION

LOCATION HILLSIDE TO SAN ANDREAS	CITY DALY CITY SOUTH TO SAN BRUND	CP SYSTEM NO. TRANS LINE 132	
AREA 1	DIVISION PENINSULA	DISTRICT SAN CARLOS	YEAR 2010
	B. PIPE-TO-SOIL POTENTIAL MEASUREMENTS	(MILLIVOLTS)	

	1	1	1	Т			,							
TEST LOCATION	BASE DATA	LAST YR. READING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
1. 1267 MORNINGSIDE IN ALLEY BEHIND SIDEWALK – SPLICE BOX		12.80	1296		1296 13087	2	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					
SAN ANDREAS STATION AT AIR VENT PIPE		1417	1303		1308		1392		1403					
5.														
DATA RECORDED BY (LAN ID)		TLRO	TZRO		TZRO		TLRO		TZRO					
DATA RECORDED BY (INITIALS)		TR	TV2		TR		TR	A Liver	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 RECTIFIE	ER 1AMPS, 2AMPS, 3AMPS, 4AMPS VOLTS/AMPS
1. 1276 MISSION NEXT TO PG&E TOWER #601		1.5A 18V	1.74	
2. 2230 ROLLINGWOOD IN CORPORATION YARD #602		3,5A 14.6V	3.5 A 13.7 V	
3.				
DATA RECORDED BY (LAN ID)		TLRO	TZRO	
DATA RECORDED BY (INITIALS)		TR	377	
DATE (MONTH/DAY)		3-16-09	3-11	

D. RECORD REVIEW

BI-MONTHLY REVIEWED BY (LAN ID)	DMM3 DAMS	DIM3	&D D8	80.08	
BI MONTHLY REVIEWED BY (INITIALS)	Du ou	DW	&D	(2)	
DATE (MONTH/DAY)	1-29 1-29	3-31	6/3	8/2	