62-7501 MEV. 4-88

PACIFIC GAS AND ELECTRIC COMPANY STANDARD PRACTICE

STANDARD PRACTICE NO. 460.2-1

EXECUTIVE OFFICE OR DIVISION GAS OPERATIONS

PAGE NO. 1 EFFECTIVE 2-1-68

SECURG DEPARTMEN

GAS DISTRIBUTION

REPLACING PAGE NO. _____ EFFECTIVE_____

SUBJECT:

PATROLLING: PIPELINES AND MAINS

PURPOSE AND POLICY:

- To establish a uniform procedure for periodic patrolling of Company gas transmission pipelines and selected distribution mains for the purpose of observing conditions on and adjacent to the right of way or route of the main, such as indications of leakage, construction activity, and any other factors that could be expected to affect the operation and safety of the lines or other Company facilities along the lines.
- 2. The route of each gas transmission pipeline or selected distribution main shall be patrolled periodically in accordance with General Order 112-B of the California Public Utilities Commission. This is in keeping with the general policy of conducting inspections as often as judged to be necessary to assure safe and economical operation.

REFERENCES:

 S.P. 460.21-4, Gas Leakage, Routine Inspection for (Gas Distribution Dept.) Gas Standards and Specifications, S.P. 805, Lubrication of Plug Valves (Gas System Design Dept.)

RECISSIONS:

4. Previously issued instructions, oral or written, which may be contrary to this standard practice are rescinded.

RESPONSIBILITY:

5. The responsibility for performance of periodic patrolling shall rest with supervisors in the divisions and Pipe Line Operations Department, who direct the maintenance and operation of gas pipelines, mains, and appurtenances. Performance includes: setting specific scope and special considerations, assignment of frequency of patrolling, reviewing, and maintaining patrol records, and initiating action to correct conditions found during patrolling.

(see over)

PAGIFIC GAS AND ELECTRIC COMPANY STANDARD PRACTICE

STANDARD PRACTICE NO. 460.2-1

EXECUTIVE OFFICE OF DIVISION GAS OPERATIONS

PAGE NO. 2 EFFECTIVE 2-1-68

ISSUING DEPARTMENT GAS DISTRIBUTION

_ EFFECTIVE_

PATROLLING: PIPELINES AND MAINS

SUPPLEMENT:

6. Procedural details for periodic patrolling appear in the Supplement of this standard practice.

APPROVED: E. H. FISHER

Vice President - Gas Operations

DISTRIBUTION: Division Managers

Division Managers

Pipe Line Operations Dept.
Claims and Safety Dept.
District Managers

Div. Gas Superintendents
Div. Admin. Analysts or Equivalent
District Cas Superintendents or Equivalent
Director, Procedures Analysis

Additional copies of this standard practice or the supplement may be obtained from Gas Operations, 245 Market Street, San Francisco

(PG&E Ext. 1604).

PROCEDURAL DETAILS FOR PERIODIC PATROLLING

FACILITIES INCLUDED:

- 7. This standard practice is intended to cover all numbered transmission pipelines, Secondary Trunk Mains in distribution capital and other distribution mains in locations or on structures where abnormal physical movement or abnormal external loading could cause failure or leakage.
 - a. Secondary Trunk Mains in distribution capital are listed in Appendix A.
 - b. Each division and PLO Department shall prepare a list of specific lines for patrolling, including special considerations that will govern the scope and frequency of patrols.

POINTS TO OBSERVE:

- Personnel patrolling the pipelines shall be alert for and report the following:
 - a. Land slides or threatened slides.
 - b. Erosion by streams, wave action, rain, etc.
 - c. Subsidence indicating settlement that would affect the pipeline or main
 - $\ensuremath{\mathrm{d}}_{\bullet}$ Construction or maintenance work being done by others along the pipeline or main.
 - e. Evidence of gas leakage, as indicated by vegetation, bubbles in surface water, odor, etc.
 - f. Needed repairs to facilities owned by company.
 - g. Needed repairs to highway structures and other facilities not owned by company where public safety is a factor.
 - h. Presence of survey parties or other indications of possible future work that might jeopardize the pipeline or main.
 - Any other factors affecting the operation or safety of the pipeline or main or other company facilities.

METHODS OF PATROLLING:

 Patrolling may be conducted by riding, walking, or flying over the route of the line so long as the above-ground surface conditions are adequately observed.

(see over)

Supplement S.P. 460.2-1 Page 2, Eff: 2-1-68

FREQUENCY OF PATROLLING:

- 10. Patrol frequencies are to be established by the operating division or PIO Department on the basis of the factors affecting the safety and operation of the pipeline, such as weather, terrain, size of line, operating pressures, location class, proximity to main highways, and railroad crossings.
- 11. The recommended minimum frequency for scheduled patrols is monthly for all gas transmission pipelines and selected distribution mains.
 - a. Where an aerial patrol is utilized, a ground patrol shall also be made at least once each year.
 - b. Where portions of the route of gas collection mains are within sight of gas department employees while traveling in the course of regularly scheduled work (such as measurement personnel checking gas purchase meters), these facilities may be considered patrolled provided that:
 - The assignment of this responsibility is clearly established,
 - A method of reporting conditions found to the responsible pipeline supervisor is established, and
 - 3) A report is filed with the pipeline supervisor at least once each month showing how and when the facility was observed and the conditions found (62-4648, Exhibit A)
 - c. Pipelines and mains shall be patrolled as soon as possible after a heavy rain storm, earthquake, etc., in those areas where damage is likely to occur.

PERFORMANCE OF OTHER ROUTINE WORK:

- 12. During ground patrols:
 - a. Important drips shall be blown.
 - b. Principal valves shall be checked for freedom of operation and lubricated if necessary. (Gas Standard & Specifications, S.F. 805, Page 2, for period of lubrication.)
 - c. Simple repairs shall be made when the performance of the work will not interfere with the patrol schedule or when prompt attention is required and the repair is within the capability of the patrolling personnel.
- 13. Any conditions found during the patrol, which require immediate attention and cannot be corrected by the patrol, shall be reported to a responsible supervisor as soon as possible.

Supplement S.P. 460.2-1 Page 3, Eff: 2-1-68

- 14. A report shall be made listing the patrol activities and describing any unusual conditions found. These reports shall be distributed within the division or PLO Department, as required, for proper surveillance and follow-up.
- 15. Form 62-4648 shall be used for reporting all ground patrolling. Form 75-347 shall be used for all aerial patrolling. Form 75-348 shall be used for the aerial patrol summary report and follow-up.
- 16. A copy of each report shall be retained for the life of each numbered gas transmission pipeline and for a minimum of three years for selected distribution mains.

ATTACHMENTS:

Appendix A - Secondary Trunk Mains in Distribution Capital Exhibit A (Form 62-4648) - Daily Patrol and Work Report Exhibit B (Form 75-347) - Aerial Pipeline Patrol Exhibit C (Form 75-348) - Aerial Patrol Summary and Follow-up Report

Pacific Cas and Electric Company Cas Operations

Paripusios.	Trans. Line	<u> </u>	LE:	15 T B	1 N M	LES_LOT_	Β Υ 3 12"	1 5 E 0	P FIFE	White lower Operating Pressure 1" 9.2.1.	Total hilns Pipe	lengra of line Stles	Note:
Richards "" Bacor Station to Drowille 5th and Fomona Primary Angulator Fisherds "" State Station to Drowille, " "Excital Made Davis Mater Station to Drown Reservation				. 6.345	3,160 _ 4.837 _		_18.178 _		128	 450	3.187. -8.345. 14.743	3.162 	_ (a)
maly (pry	:				15.836			-		 150 150	16 . L22	16.122	
Lateral Tay from Bungs and Date Ave. to disyron and Carver Road Regulator, Bodesco Claretina Coffee Road Regulator Station on Structural Eap to Cares Regulator Station on Mires Street:							_ 2.246 _			500	3.623	3.625	(6)
Chairing Coffee Board Regulator Scatter at Electron's Es at Coffee and Chairing Avenue (12" Parellel Naim) Crass Regulator Station at Wirel Street to Terlock Regulator Station to Michael Station at Wirel Street to Terlock Regulator Station to Michael Regulator Station at Michael Regulator Station at Michael Regulator Torlock Local Regulator Station 145 to Lander and D Berulator Torlock				11.913		(n.591 =	2.450				11.913	11.913 13.686	_(2)
Numbergrish Assemb and Chastum Screek to Turbotk Regulator Station					F. 601	7.677 _				 	8.414 8.601	3.601	m
Klajue Mrenat - Manta Guar to Felton. Hadeigner god Gaptible Strenuts to SantaGuar K.F. Beldet. Santa Gruz R.F. Galder to Daverport Marcon Mond Yother Station, Satings, Maiss 100-187 and 501 to Millions					6.136 _	i.DeL	. 12.671		7	 450 490	6.136 1.061 12.871	6.136 1.061 12.821	
Regulator Gration 301 and Mry. 2. Persis St. Regulator Sta.; Montetey, Mry. 2. Hillowin Regulator Station on York Gad America, MCT-1 Most Ord Jenucios to Encytodrom Road Tap, Main 30. Restruction Read Tays. Main 30. to Tiest and State Torotto. Toro Ord 16"	HTT-1 HTY-2 HTY-2				13.858		_1.489_ _ 1.937			360	15.353 1.038 1.813	15.359 1.936 1.813	
No. 1941						6.340 _ 6.362			425	350			

- Tachobat three parallel sections; one successing for 119 files of D7 pipe, one of 1.80 miles of 87 act 125 miles of 127 mips, and one 2.57c miles of 67 pipe. Three sections of this truth main are largest by these interiors of 150 fireconstation (Main 21. Section 19, Adobe to Sciencer bill constating of 4.79 miles of 127 mins 1 miles in 137 mines of 127 largest part by the 1.00 miles of 127 mins 1 mines in 127 largest part by the 1.00 mines of 127 mins 1 mines in 127 mines 1.00 mines of 127 mines 1.00 mines 1.
- (c) Includes one lateral to Ono-Dan Mad. and Extrema Spring Regulator Pit secretting Jon (AM) online of it and .777 miles of B" pape.
- (0) Toulooks three cross race to 6" twin accountagion 125 withs of 6" pape. This 3.112 mailer of 8" main tage alief using or 6" main vest of Thomasizes.
- (e) Uncludes six 8" Nation and one 6" Nation accounting for 10% miles of 8" paper that 12" lane loops 200 miles of 12" mad 10-000 miles of the 8" Monage of the
- (2) This main loops 1.43 miles of 0" mile which of distributed for Seed Angulator Stations. Includes one 3" tained the to Demble Rood Rep deter fit accounting for .005 miles of 3" page and two cross (or a committee of miles for the state of the committee of the
- * The novimum operating pressures have been eas to must functations of the integrated system and may be less than the design operating pressures.

GTR0061136 Material Redacted

62-4648 NO. 1 10-54 100 PADS

Day of Week

Date

PACIFIC GAS AND ELECTRIC COMPANY

DAILY PATROL AND WORK REPORT

NOTE: PREPARE IN PENCIL WITH PENCIL CARBON, DO NOT TYPE. SUBMIT PENCIL COPIES TO GENERAL OFFICE. RETAIN CARBON COPY IN DIVISION MAIN PATROLLED Miles Car This Day: Month To Date Month To Date: MAIN NO. FROM: VALVES GREASED: NUMBERS CREW PERSONNEL Number of Permanent Men Number of Temporary Men Number On Duty this Day Brief description of work performed this day; relephone trouble, pipe line, etc. DRIP RECORD JOB ORDERS WORKED THIS DAY: Min. Liquid Blown Gals. Kind* No. TOTAI. SIGNED_ *(W) Water; (G) Gas; (O) Oil; (D) Dry

GTR0061137 Material Redacted

Weather

District

PLANE CAA #		PACIF	D	DATE					
PILOT RADIO oper inoper			W	WEATHER					
			S						
			TR	IP REÇORD				on	
				LAY OVER	AY				
FROM		ro	VIA MA	INS	FLIGHT TAKE-OFF	THUD	HOURS	OVER	PASSENGER
							 		
							-	<u> </u>	<u> </u>
							1		
							<u> </u>		
									
							-		
							1		
			-		<u> </u>				
			-		<u> </u>	TOTALS	+	1 1	

MAIN NO.	LOCATION		IO CONTACT REPORTED TO			PILOT	OBSERV	ATIONS	
								•	
L									
		ļ	ļ						
									·····
		 					<u>.</u>		
			 						
	 	1							
*	<u> </u>	† -							
		T							
	[
	-		<u> </u>	 					
	·	 		`					
	T.V.C.	1 7004	1 70 1	<u> </u>				·	
	INS TROLLED	FROM MILE	TO MILE			REA	SON		
			1		•				

75-348 (1/11/68)

PACIFIC GAS AND ELECTRIC COMPANY AERIAL PATROL SUMMARY AND FOLLOW-UP REPORT

MAIN NO.	MILE LOCATION	RADI	O CONTACT REPORTED TO	Division Gas Superintendent OBSERVATIONS	FINDINGS & DATE OF R/W ACTIVITY REPOR
					•
l					
ĺ					
Ì					
			i		
				Date	Bv
MAINS		OM	TO		Ву
			TO KILE	Date REASON	Ву
MAINS OT PATRO					Ву