PACIFIC GAS AND ELECTRIC COMPANY

	CUSTOMER ENERGY SERVICES (CES)/GAS SUPPLY (GS)								
	CES/GS	STANDARD	CES STANDARD:	C-T&CS-S0353 460.2-2					
	ISSUING DEPARTMENT:	T&CS, DISTRIBUTION	PAGE NO.:						
	CES OFFICER:	V. P. T&CS	EFFECTIVE DATE:	61-95 6-95					
	GS OFFICER:	V. P. GS&O Gas Services & Oper	REVIEW DATE:	01-00					
	TITLE: Physical Inspection of Pipelines, Mains and Services								
	Purpose: To provide a complete	e record of the physical condi	tion of pipelines, m	ains, and services.					
	Policy:								
M	Pipe condition information shall be obtained and recorded when a line has been exposed by company action and, when practical, exposed by others and at locations where the lines are installed above ground including all stations or on bridges or spans. Responsibility Responsibility								
initiatio	Responsibility for inspection of pipelines, mains, and services shall rest with the line organization manager/superintendent who directs the maintenance and operation of the facilities. Responsibility includes assignment of scope, issuance of special instructions, training in points to observe, scheduling inspectial inspections, reviewing and maintaining inspection records, and initiating action to correct conditions requiring attention.								
ΔK	Responsibility for inspection of these gas facilities and the preparation of necessary records of inspection shall also be shared by Distribution Construction department supervisors in the performance of assigned work within the company gas system. All records of inspections so generated shall be turned over to the operating department. responsible line organization.								
4		btained: (where practical)	Idail be specify	some minimum items of into	, ,				
1	1. Type of protective	coating	e.q., *						
-	2. General condition	or coating	0	awas and out-of-roundness	N				
	3. External condition	of pipe including signs o	t corrosion, acres,	gouges, and out of consideress					
4	4. Soil type								
	5. Cover depth								
	6. Internal condition	of pipe, in cases where line h	as been cut or an ul	trasonic survey is made					
		A A		.55					
		I movement of pipe or structu							
	9. Abnormal externa	Mixing reactions of and earthquake fault displace I loading (where practical)	ement						

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10. Any other useful information (where pratical)

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Executency of Inspections

- Exposed piping in compressor plants, terminal stations, other major control stations, and at bridges, wharves, and spans shall be periodically inspected for evidence of atmospheric corrosion.
 Inspections shall be scheduled as frequently as needed to effectively monitor conditions. Where corrosive conditions exist, inspections shall be at intervals not exceeding three years. Atmospheric corrosion areas are designated in Electric Construction Document 032911.
- 2. Inspections shall cover all supports, expansion devices, and hangars which directly affect the location or security of the gas piping.
- 3. This standard does not establish frequency for inspection of buried piping. Inspections shall be performed when pipe is exposed in the course of routine work; when special surveys are performed due to extensive corrosion, leakage history, or record of failure; or when the pipe has been exposed by an outside party.

Records:

- 1. Any conditions found during the inspection which require immediate attention shall be reported to the supervisor responsible as soon as possible.
- 2. A written report shall be made listing the results of each inspection. These reports shall be distributed as required for proper surveillance and follow-up.
 - A. The Leak Survey, Inspection and Repair Report Form 62-4060A (Form A) may be used for all lines. Other forms may be used as long as they include all the required information listed.
 - B. It is not necessary to report the condition of plastic stub services on the report form when they are uncovered for the purpose of installing stub completions. The exposed plastic stub must be inspected. No report or notation is necessary if the plastic pipe is found to be in good condition. If a problem caused by other than damage due to a third party is observed, it should be corrected and reported on a material problem report. This exception is applicable to plastic pipe only. The report must be prepared when a steel stub service is exposed.
 - C. Inspection of exposed piping in compressor plants, terminal stations, other major control stations, and at bridges, wharves, and spans shall be covered by a special report when conditions are found to be unsatisfactory or a specific problem is under observation. This report shall be complete with sketches, measurements, photographs, or other information required to represent the problem and proposed solution.
 - D. Other scheduled inspections of exposed piping where conditions are found satisfactory and no action is required shall be recorded by filing a report indicating where the inspection was made and what facilities were covered.
 - E. Internal inspections shall be documented in a format compatible with the method of inspection.
- 3. The record of each inspection in conjunction with a leak repair shall be entered into the computerized leak history program.
- 4. The record of each inspection, repair or reconditioning of any section of pipe shall be filed in an easily retrievable manner for the life of the facility.

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Facility Design Confirmation:

Where practicable, when a pipeline or main operating at or designed to operate at a stress level at or above 20% of specified minimum yield strength of the pipe material is uncovered, and the original design data has been assumed because of incomplete records, Gas Engineering and Environmental Services shall be informed so that arrangements can be made to determine unknown data.

Date Issued/Updated:

Effective: January 1, 1995 June 1, 1995

Revision Date: January 1, 2000

Signed,

Signed,

James H. Pope Vice President T&CS W. R. Mazotti Vice President GS&O

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Distribution:

CES Vice Presidents

Gas Services and Operations Managers

Gas Services and Operations Superintendents

Technical and Construction Services Managers

Division Managers

Division Capital Investment Directors

Division Construction, Maintenance and Operations Directors

Technical and Ecological Services Manager

Reference Documents:

A Letter, Material Problem Report Program, February 24, 1994

CES Standard C-T&CS-S0350/GS S.P. 460.21-4, "Periodic Leakage Surveys of Gas Transmission and Distribution Facilities"

Gas Construction Document 089819 (0-16), "Corrosion Control of Gas Facilities"

Electric Construction Document 032711, " Corrosion Areas Overhead Lines"

For Further Information:

For additional information or copies of this standard please contact the Distribution Department.

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