5.0 INTERNAL CORROSION

Where evidence of internal pipeline corrosion is noted and has been verified, tests are to be performed. All information is recorded on Gas Department Form 75-95.

- 5.1 Proper analysis of internal pipeline environment liquids must be taken. If sample has been determined to be corrosive, an internal corrosion control program should be initiated.
- 5.2 The effectiveness of the internal corrosion control program is usually monitored with probes and data recorded on "Probe Data Sheets". Probe readings are recommended at monthly intervals until history shows the corrosion is under control and then monitored at six month intervals.
- 5.3 Whenever steel pipe is removed from a pipeline, it is to be inspected for evidence of internal corrosion and this inspection is recorded as outlined in Standard Practice 460.2-2 using Form No. 62-3117, Leak Survey, Inspection and Repair Report, Form "A".

6.0 RECORDS

Records shall be maintained to show the location details of all protected structures and sufficient test data to demonstrate the adequacy of installed corrosion control measures. A file folder shall be maintained for each cathodic protection system containing location maps delineating the protected piping system. The file folder should also contain information on the number, kind and location of rectifiers and anodes, a complete history of monitoring information (Form 62-4953), current span data, bond data and any other pertinent information. C.P. areas are to be reviewed at intervals not to exceed 3 years, to determine pipe coating damage, isolated sections of steel pipe and current loss due to plastic pipe installation.

These records are to be maintained for the life of the facility.

7.0 ATMOSPHERIC CORROSION CONTROL

7.1 General

- 7.1.1 This section outlines requirements for mitigating damage caused by corrosive environments to aboveground PG&E gas facilities in compliance with current General Order 112.
- 7.1.2 All new pipe installed aboveground must be coated or jacketed with a PG&E approved product. (Section "E", Gas Standards and Specifications Book.)
- 7.1.3 The operating departments are responsible for designating areas subject to atmospheric corrosion. Electric Engineering Standard, Drawing 03911 defines atmospheric corrosion areas and should be used. Maps of the atmospheric corrosion areas shall be prepared and maintained by the operating departments.

REV.	DESCRIPTION	APPROVED BY	DATE
-	New Standard; supersedes Standard Practice 412-1		9-30-91
	GAS & ELECTRIC DISTRIBUTION DEPARTMENT - DISTRIBUTION STANDARDS	GAS DISTRIB	UTION
Pſ	CORROSION CONTROL OF GAS FACILITIES	DRAWING NUMBE 089819	R · SHEET

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- 7.2.1 In atmospheric corrosion areas, all services must be inspected at intervals not greater than three years.
- 7.2.2 During inspection, all piping or meter sets with active corrosion shall be analyzed to indicate whether the damaged facility may be repaired by removing the corrosion and recoating or must be replaced.

7.3 Maintenance

7.3.1 All repairs or replacements will be completed according to appropriate Gas Standards and Specifications.

7.4 Coatings

Galvanized piping does not require coating. Care should be taken to limit the number of scratches on galvanized pipe.

7.5 Records

7.5.1 Each operating department shall maintain a file that includes the following:

A map of the atmospheric corrosion area(s).

Documentation from each survey indicating the following: dates of the survey, addresses of the pipe requiring remedial attention, with the type of action required, dates of remedial action taken.

REV. DESCRIPTION APPROVED BY DATE

1 New Standard; supersedes Standard Practice 412-1.

GAS & ELECTRIC DISTRIBUTION DEPARTMENT - DISTRIBUTION STANDARDS
CORROSION CONTROL OF GAS FACILITIES

DRAWING NUMBER - SHEET
089819
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REV.	DESCRIPTION	APPROVED BY	DATE	
1	New Standard; supersedes Standard Practice 412-1		P-30-91	
	GAS & ELECTRIC DISTRIBUTION DEPARTMENT - DISTRIBUTION STANDARDS	GAS DISTRIBUTION		
PG	CORROSION CONTROL OF GAS FACILITIES	089819		

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REV.	DESCRIPTION		APPROVED BY		
=	New Standard; supersedes Standard Practice 412-1.			9-30-91	
PG	GAS & ELECTRIC DISTRIBUTION DEPARTMENT - DISTRIBUTION STANDARDS		GAS DISTRIBUTION		
	CORROSION CONTROL OF GAS FACILITIES		DRAWING NUMBER	• SHEET	
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