Gas Distribution and Technical Services

Rev. 10/99

CATHODIC PROTECTION AREA CURRENT REQUIREMENTS WORKSHEET

СРА Job No. Date

Soil Resistively (Ohms Cm)

Calculated By

1. Cathodic Protection Current Formula

Total Current Requirements (Amperes) = Pipe Length (Feet) x Pipe Outside Wall/Running Foot (Square Feet per Foot) x Current Requirements per Square Feet (Milliamperes per Square Feet)/1000

	Steel Mains							
Nominal Pipe Size (Inches)	Length of Pipe (Feet)	Circumferential Area per Feet of Pipe (Square Ft. / Ft.)	Total Outside Pipe Area (Square Feet)	Current Requirements (Milliamperes per Sq. Ft.)	Total Current Requirements (Amperes)	Comments		
3/4		0.27		0.05				
1		0.34		0.05				
1-3/4		0.43		0.05				
1-1/2		0.50		0.05				
2		0.62		0.05				
3		0.92		0.05				
4		1.18		0.05				
6		1.73		0.05				
8		2.26		0.05				
10		2.81		0.05				
12		3.34		0.05				
16		4.19		0.05				
20		5.24		0.05				
Totals								

	Gas Service							
Number of Services	Nominal Pipe Size (Inches)	Average Length of Pipe (Feet) 1	Total Length of Pipe (Feet)	Circumferential Area per Feet of Pipe (Square Ft. / Ft.)	Total Outside Pipe Area (Square Feet)	Current Requirements (Milliamperes per Sq. Ft.)	Total Current Requirements (Amperes)	
	3/4 STL			0.27		0.05		
	1 STL			0.34		0.05		
	1-1/4 STL			0.43		0.05		
	1–1/2 STL			0.50		0.05		
	2 STL			0.62		0.05		
	1/2 CU			0.16		7.8		
	PL	N/A						
Total Current Requirement								
Use the divis	sion average leng	gth.						

Total Cathodic Protection Current (Design)				
	Total Calculated Current (Mains and Services)			

July 7, 2000

Material Redacted GTR0008377 2. Total Number of Rectifiers Needed:

Total Current

3. Actual Current in CPA:

Total Current

Notes

- 1. After completing this form, attach it as part of the job. Ensure that this form is filed in the CPA's permanent record.
- 2. Check with the local corrosion department for any special local current requirements.

1 DO NOT CUT ME! I DON'T PRINT.

July 7, 2000

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