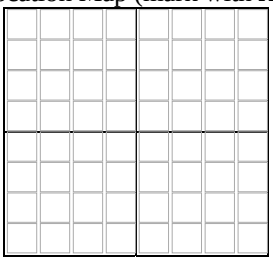
CATHODIC PROTECTION DATA FORM

Location Map (mark with **X**)



Owner _____

Address

Field Office SELECT Field Office

Practice & Const. Date _____

Sec ____ T ____ R____

GPS _____

Prepared by & Date _____ Checked by & Date _____

Pipe, Coating and Soil Data

Pipe No. or Name [1/]	Dia., inch	Length, feet	Anti-Seeps, etc. Size W' x H'		Anti-Seeps, etc. Number	Coating Coeff. "**C**"	Protected Area, Ft.^{2}	Soil Resist. "**Re**"
						120		

[1/] If structure utilizes more than one pipe, use an additional form for each pipe installation.

Anode Bed

Anode Type _____ Size (weight) of Anodes 5 Number of Anodes _____

Coefficient "K" _____ Soil Resistance "R" _____

Modification: Number Anodes Added _____ Size (weight) of Anodes Added 5

Modification: Coefficient "K" _____ Resisters Added (Ra) _____

References

Tech. Note Engineering - Design SD-12 (Rev.) Corrosion Protection on Corrugated Metal Pipe

Test A Series circuit with Volt-Ohm-Meter, 1.5 volt dry cell battery, and reel of wire. This test is used to check the equipment circuit.

Test B Series circuit with Volt-Ohm-Meter, 1.5 volt dry cell battery, reel of wire, and entire length of pipe. This test is used to check electrical continuity in the pipe.

Test C Series circuit with Volt-Ohm-Meter, 1.5 volt dry cell battery, reel of wire, length of pipe, and wire lead from the pipe to the anode test station. This test checks continuity of the wire lead from the pipe to the test station.

Test D Series circuit with Volt-Ohm-Meter, copper sulfate (half cell) in contact with moist soil, and reel of wire connected to end of pipe. Complete this test before disconnecting anode bed from pipe. This test checks the pipe to soil (Voltage) potential connected.

Test E Series circuit with Volt-Ohm-Meter, copper sulfate (half cell) in contact with moist soil, and reel of wire connected to end of pipe. Complete this test a minimum of 10 minutes after disconnecting anode bed from pipe. This test checks the pipe to soil (Voltage) potential disconnected.

Print Form

Monitoring Data

		Test A	Test B	Test C	Test D	Test E	
Collection Date	Checker Initials	Electrical Continuity DC current (volts)	Electrical Continuity DC current (volts)	Electrical Continuity DC current (volts)	Average Pipe-To-Soil Voltage Potential w/anode connected (mV)	Average Pipe-To-Soil Voltage Potential w/o anode connected (mV)	Protective Current Flow Milliamps (ma)

Notes and/or Computations:

Expected Anode Life w/ existing protective current - **$Y = 47 \times W / I_r$** **Y = ____ yrs.**

Existing Current = _____ ma

Expected Anode Life w/ added protective current - **$Y = 47 \times W / I_r$** **Y = ____ yrs.**

(Use when additional anodes are added)

Cathodic Protection Requirements: - **$I_t = C \times A / R_e$** (Estimated current required) **I_t = ____ ma**

Current output per anode: - **$I_o = K / R$** (Estimated current) **I_o = ____ ma**

Number of anodes required - **$N = I_t / I_o$** **N = ____**