CATHODIC PROTECTION DATA

Soil Resistivity Measurement: (See Form IA-ENG-38)

Soil Resistivity at Pipe Depth = _____ ohm-cm
Soil Resistivity Used in Design = _____ ohm-cm = Re_b
Soil Resistivity at Anode Bed = _____ ohm-cm = Re_a

Anode Design

Type of Structure: _____ in. Diam. _____ Pipe with (riser)(hood)(canopy) inlet and
(cantilever)(flume) outlet

Protective Coating: _____Coating   Pipe Coating Constant = _____ (1)

Area to be Protected:

_____ in. Diam. Drawdown Pipe   _____ ft. @ _____ sq ft/ft = _____ ft^2
_____ in. Diam. Riser   _____ ft. @ _____ sq ft/ft = _____ ft^2
_____ in. Diam. Principal Spwy.   _____ ft. @ _____ sq ft/ft = _____ ft^2
_____ each Diaphragms (_____ in. Diam.)   @ _____ sq ft   = _____ ft^2
Area (A)   TOTAL   = _____ ft^2

Anode Material: _____ Zinc   Anode Coefficient k = _____ (2)
_____ Standard Potential Magnesium   **USE _____ (N) each of _____ (W) lb. anodes**
_____ High Potential Magnesium   **Anode Type _____**

Total Current Required: Coated Pipe: $I_t = C(A/Re_b)$ = _____ milliamps
Bare Pipe: $I_t = I_k(A)$ = _____ milliamps

Effective Life:
Magnesium: L_{mag} = 47 N (W/I_o) = _____ yrs.   Zinc: L_{zn} = 31 N (W/I_o) = _____ yrs.

Installation and Maintenance Records:

Date	Inspector	Potential (-Volts with Cu/CuSO$_4$ Electrode)			Circuit Through Pipe OK	Anode Current (Milli-Amps) Anode to Pipe I_o	Effective Life – Years	Remarks
		Pipe to Soil (Closed Circuit) 0.85 to 1.2	Pipe to Soil (Open Circuit)	Anode to Soil (Open Circuit) 1.1 to 1.7				

(1) See EFH Amendment IA67, Table 2
(2) See EFH Amendment IA67, Table 3