

GP 19-06-01	Facilities for Corrosion Monitoring in Process Equipment	July 2001
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Facilities for Corrosion Monitoring in Process Equipment

GP 19-06-01

Scope

[I] This Global Practice (GP) covers the procurement and installation of corrosion monitoring facilities using electrical resistance corrosion probes.

[I] An asterisk (*) indicates that a decision by the Purchaser is required or that additional information is furnished by the Purchaser.

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1. Required References

[I] This Section lists Practices and Standards that are generically referenced and assumed to be a part of this document. Unless otherwise specified herein, use the latest edition

1.1. Global Practices–ExxonMobil Engineering Practices

GP 15-10-01	Instrument Transmission Systems
GP 15-12-01	Instrument Wire and Cable

1.2. ASME–American Society of Mechanical Engineers

ASME B16.5	Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24
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2. Definitions

Term	[I] Description
Electrical Resistance Corrosion Probe	An electrical resistance corrosion probe includes a corrosion sensing element, a probe body with appropriate fittings for insertion into the system and an end connector for attachment to a meter, or wiring to a multiplexor, which electronically monitors the progress of corrosion.
Inspector	The term Inspector, as used in this GP, refers to Owner's Representative.
Meggers	Meggers are clip-on devices for checking the integrity of wire insulation, and can generate voltages beyond what is required to test the integrity of the wire's electrical insulation.
Probe Retractor Tools	Probe retractor tools are special devices that provide mechanical advantage to the onstream installation or retraction of corrosion probes or hydrogen probes. Generally, they are suitable for use with pipe and pressure vessels up to 1000 psi (68 bar).

3. Responsibilities

- * [I] The Owner's Engineer shall select and specify the probes to be installed, the location for probe installation and the system requirements.
- * [I] Contractor(s) responsible for installing the probe system shall obtain all fittings, valves, probes and other necessary items. Contractor(s) shall install the probes after hydrostatic testing or line flushing. The wiring and connections shall then be field tested.

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