



Description	To prescribe the minimum steps required to remediate cathodic protection.
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Regulatory Applicability	<input checked="" type="checkbox"/> Regulated Transmission Pipelines <input checked="" type="checkbox"/> Regulated Gathering Pipelines (Type A) <input checked="" type="checkbox"/> Regulated Gathering Pipelines (Type B) <input checked="" type="checkbox"/> Regulated Distribution Pipelines Installed after August 1, 1971
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Frequency	When corrosion is found on cathodically protected pipe.
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Reference	49 CFR 192.483 <i>Remedial Measures: General</i> 49 CFR 192.485 <i>Remedial Measures: Transmission Lines</i> LA Title 43 Part XIII 2135 <i>Remedial Measures: General</i> LA Title 43 Part XIII 2137 <i>Remedial Measures: Transmission Lines</i>
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Forms	F-192.455 <i>Installation of Cathodic Protection System</i>
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Related Specifications	ASME/ANSI B31G AGA Pipeline Research Committee Project PR-805 (with RSTRENG disk)
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OQ Covered Task	0081 <i>Install Cathodic Protection Electrical Isolation Devices</i> 0091 <i>Troubleshoot In-service Cathodic Protection Systems</i> (In order to perform the tasks listed above, personnel must be qualified in accordance with West Texas Gas's Operator Qualification program or directly supervised by a qualified individual.)
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Procedure Steps

1. Have an engineer or qualified individual determine what changes need to be made in the cathodic protection system.
2. Use ASME/ANSI B31G or the procedure in AGA Pipeline Research Committee Project PR 3-805 (with RSTRENG disk) to determine the strength of the pipe based on the actual remaining wall thickness.
3. Replace sections of pipe that have areas of general corrosion (corrosion pitting so closely grouped as to affect the overall strength of the pipe is considered general corrosion) and a remaining wall thickness less than that required for the maximum allowable operating pressure of the pipeline.

NOTE: These areas may be repaired by a method that reliable engineering tests and analyses have shown can permanently restore the serviceability of the pipe.

4. Replace or repair sections of pipe that have areas of localized corrosion pitting to a degree that leakage might result.

NOTE: If repair or replacement is not performed, the operating pressure must be reduced to commensurate with the strength of the pipe, based on the actual remaining wall thickness in the pits.

5. Ensure the pipe being used in the replacement has a properly prepared surface, is provided with an external protective coating that meets the requirements of 49 CFR 192.461 (See procedure P-192.461), and is cathodically protected in accordance with the requirements of 49 CFR Subpart I. Follow procedure P-192.455 for installation requirements.
6. Repair any other areas of pipe that show extensive corrosion.
7. Make appropriate changes to the cathodic protection system in an attempt to stop the corrosion. Install any additional equipment according to procedure P-192.455.