



ISO 15589-1

Oil and gas industries including lower carbon energy — Cathodic protection of pipeline transportation systems —

Part 1: On-land pipelines

*Industries du pétrole et du gaz y compris les énergies à faible
teneur en carbone — Protection cathodique des systèmes de
transport par conduites —*

Partie 1: Conduites terrestres

Third edition
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This third edition cancels and replaces the second edition (ISO 15589-1:2015), which has been technically revised.

The main changes are as follows:

- cathodic protection criteria have been extended with further clarification on the application of the criteria;
- requirements for design have been more detailed; periodicities for inspection of cathodic equipment have been enlarged; and the option for remote monitoring has been added;
- requirements for measurements and testing during commissioning have been further detailed.

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Pipeline cathodic protection is achieved by the supply of sufficient direct current to the external pipe surface, so that the steel-to-electrolyte potential is lowered to values at which external corrosion is reduced to an insignificant rate.

Cathodic protection is normally used in combination with a suitable protective coating system to protect the external surfaces of steel pipelines from corrosion.