

GENERAL SPECIFICATION

CORROSION

GS EP COR 101

Internal cathodic protection of equipment and storage tanks

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1. Scope

This document defines the minimum requirements for the engineering, installation and commissioning of internal cathodic protection for equipment pressurized such as vessels, separators, desalters, filters etc., or open to water such as pump caissons, utility risers, J-tubes, sump caissons etc.

This document also deals with crude oil tanks (containing crude oil and a free water phase) and tanks or equipments (separator, filter, etc.) containing all type of water (seawater, industrial water or potable/fresh water, etc.).

Protection of internal surface of ballast tanks and other integrated tanks of floaters such as FPSO, FSO, FPU, etc., is not covered in this document but is covered in **GS EP COR 103**.

Protection of internal surface of suction or driven pile is not covered in this document but is covered in **GS EP SPS 009**.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and addendums, is the latest revision published at the effective date of this document.

Reference	Title
DNV-RP-B401	Cathodic protection design
EN 12499	Internal cathodic protection of metallic structures
NACE SP 0196	Galvanic Anode Cathodic Protection of Internal Submerged Surfaces of Steel Water Storage Tanks
NACE SP 0575	Internal Cathodic Protection (CP) Systems in Oil-Treating Vessels