



Document No.	GP 06-10
Applicability	Group
Date	20 April 2009

GP 06-10

Corrosion Management Systems

Group Practice

**BP GROUP
ENGINEERING TECHNICAL PRACTICES**

Foreword

This issue of Engineering Technical Practice (ETP) GP 06-10 incorporates changes to align with the Operating Management System (OMS) and various other ETPs. Changes are so extensive that revisions are not marked by bars in the margin as is normal practice.

Copyright © 2009 BP International Ltd. All rights reserved.

This document and any data or information generated from its use are classified, as a minimum, BP Internal. Distribution is intended for BP authorized recipients only. The information contained in this document is subject to the terms and conditions of the agreement or contract under which this document was supplied to the recipient's organization. None of the information contained in this document shall be disclosed outside the recipient's own organization, unless the terms of such agreement or contract expressly allow, or unless disclosure is required by law.

In the event of a conflict between this document and a relevant law or regulation, the relevant law or regulation shall be followed. If the document creates a higher obligation, it shall be followed as long as this also achieves full compliance with the law or regulation.



Table of Contents

Foreword	2
Introduction	4
1. Scope	5
2. Normative references.....	5
3. Terms and definitions.....	5
4. Symbols and abbreviations	6
5. Corrosion management system	6
6. Organisation	8
6.1. Management accountability	8
6.2. Delegation of authority	8
7. Design and materials selection	8
8. Corrosion risk assessment.....	8
9. Corrosion management strategy	9
10. Corrosion control programme	9
10.1. General.....	9
10.2. Definition and execution of activities	9
11. Corrosion control programme implementation.....	10
12. Performance management.....	10
12.1. General.....	10
12.2. Tactical review	10
12.3. Strategic review	11
13. Assurance.....	11
14. Learning and sharing	11
Bibliography	12

List of Tables

Table 1 - Review intervals.....	11
---------------------------------	----

List of Figures

Figure 1 - Corrosion management system	7
--	---



Introduction

The Group Standard GRP STD 01 “Integrity Management” and Group Defined Practice GDP 5.0-0001 “Integrity Management” require BP entities to have “Processes in place to confirm that plant, assets, facilities, floating systems, structures and equipment are fit for service”. A key aspect of “fit for service” is the development, implementation, and maintenance of a corrosion management system.

Corrosion management is an important component of integrity management programmes in many BP entities; however, the nature of corrosion threats and the methods for their mitigation, monitoring, and inspection varies.

Corrosion management applies to through-life activities including design, material selection, chemical treatment, corrosion monitoring, inspection, maintenance, and preservation.

Corrosion management requires an overall system and delivery organisation within the BP entity. The main components of the system include:

- Site Technical Practices that define requirements for equipment design and materials selection.
- A risk assessment protocol which identifies specific corrosion threats and assesses the probability and consequences of these leading to equipment failure.
- A corrosion control programme that defines the strategy for managing each corrosion threat at system, circuit, or individual equipment level as appropriate.
- Methods to measure performance and provide continuous improvement.
- Assurance.

A primary objective of corrosion management is to manage corrosion in a predictive rather than reactive manner, i.e., to ensure equipment remains fit for service for the required life without requiring unplanned actions to address corrosion-related deterioration.

The objectives of this GP are to:

- Outline a framework for a corrosion management system to meet the above objectives.
- Define specific requirements for the development, implementation, and continuous improvement of a corrosion management system.

