

Guidance on the management and maintenance of the integrity of structures, equipment and systems taken out of service on either a temporary or permanent basis in the upstream oil and gas industry

GUIDANCE ON THE MANAGEMENT AND MAINTENANCE OF THE INTEGRITY OF  
STRUCTURES, EQUIPMENT AND SYSTEMS TAKEN OUT OF SERVICE ON EITHER A  
TEMPORARY OR PERMANENT BASIS IN THE UPSTREAM OIL AND GAS INDUSTRY

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## FOREWORD

This publication has been produced directly by the Energy Institute (EI's) Ageing and Life Extension Committee (ALECOM) with technical drafting and editing by Optimal Asset Maintenance Solutions. The intention of this publication is to provide guidance for the effective management and maintenance of the integrity of equipment and systems taken out of service and their related structures, on either a temporary or permanent basis in order to facilitate good practice throughout the industry.

The guidance looks to define the issue and the regulatory drivers for the required industry good practice guidance and then sets about detailing the various equipment and systems that can be considered under a mothball approach, providing guidance on how to suitably manage and maintain these structures. An extensive list of equipment and processes and their sub-systems are then considered in detail.

Although it is anticipated that following this publication will assist those involved in the effective management and maintenance of the integrity of equipment and systems taken out of service and their related structures, on either a temporary or permanent basis, the information contained in this publication is provided as guidance only. While every reasonable care has been taken to ensure the accuracy of its contents, the EI, and the technical representatives listed in the acknowledgements, cannot accept any responsibility for any action taken, or not taken, on the basis of this information.

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Suggested revisions are invited and should be submitted to the Technical Department, Energy Institute, 61 New Cavendish Street, London, W1G 7AR.

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This first edition guidance was coordinated and managed by Dr Cameron Stewart (EI) Upstream Technical Manager.

## INTRODUCTION AND SCOPE

This document presents a good practice guideline for the effective management and maintenance of the integrity of equipment and systems taken out of service and their related structures, on either a temporary or permanent basis, in the upstream oil and gas industry.

Adopting a high level view of typical equipment found in the upstream oil and gas industry, specific isolation and preservation measures are outlined, including instances where connections to live equipment may be required.

Based on a collation of good practice and equipment manufacturer recommended procedures, this document aims to address typical situations that are likely to arise; however, appropriate risk assessments based on contextual requirements need to be undertaken to fully determine the applicability of the outlined good practices to the specific situation.

The scope, range and depth of the document has been based on field experiences of the compilation team and may correspondingly be worthy of some revision and updating. This should be performed as additional experiences of upstream mothballing are gained.