

DEP SPECIFICATION

AREA CLASSIFICATION (AMENDMENTS/SUPPLEMENTS TO IP 15)

DEP 80.00.10.10-Gen.

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DESIGN AND ENGINEERING PRACTICE

DEM1



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PART I INTRODUCTION

1.1 SCOPE

This DEP specifies requirements and gives recommendations for the determination of hazardous areas in facilities handling flammable fluids.

This DEP is based on the Energy Institute (previously called The Institute of Petroleum) Model Code of Safe Practice, Part 15, 3rd edition, July 2005 (IP 15). Part III of this DEP amends, supplements, and deletes various clauses of IP 15. Part III follows the clause numbering of IP 15 for easy reference.

All clauses of IP 15 not modified by this DEP remain valid as written.

This DEP excludes facilities located in North America. Refer to DEP 80.00.10.13-Gen.

NOTE: For drilling rigs, area classification requirements may be in accordance with either this DEP or DEP 80.00.10.13-Gen. The selection of which DEP to be applied is not dependent on the physical location of the facility. However, it is a requirement that the selected DEP (one or the other) is applied in its entirety; see Part II.

For areas containing combustible dusts, reference is made to IEC 60079-10-2.

This DEP contains mandatory requirements to mitigate process safety risks in accordance with Design Engineering Manual DEM 1 – Application of Technical Standards.

This is a revision of the DEP of the same number dated February 2011; see (1.5) regarding the changes.

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This DEP is intended for use in facilities related to oil and gas production, gas handling, oil refining, chemical processing, gasification, distribution and supply/marketing. This DEP may also be applied in other similar facilities.

This DEP does not apply to temporary electrical installations under the control of a gas-free permit. Refer to local permit-to-work and gas-free permit procedures for acceptable installation methods.

When DEPs are applied, a Management of Change (MOC) process shall be implemented; this is of particular importance when existing facilities are to be modified.

If national and/or local regulations exist in which some of the requirements could be more stringent than in this DEP, the Contractor shall determine by careful scrutiny which of the requirements are the more stringent and which combination of requirements will be acceptable with regards to the safety, environmental, economic and legal aspects. In all cases the Contractor shall inform the Principal of any deviation from the requirements of this DEP which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned, the objective being to obtain agreement to follow this DEP as closely as possible.

1.3 DEFINITIONS

1.3.1 General definitions

The **Contractor** is the party that carries out all or part of the design, engineering, procurement, construction, commissioning or management of a project or operation of a facility. The Principal may undertake all or part of the duties of the Contractor.

The **Manufacturer/Supplier** is the party that manufactures or supplies equipment and services to perform the duties specified by the Contractor.