

DEP SPECIFICATION

PREPARE AND MAINTAIN DATA IN SUPPORT OF WELL EMERGENCIES – NEW WELLS AND NEW ACTIVITIES ON EXISTING WELLS

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DESIGN AND ENGINEERING PRACTICE

DEM1



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PREFACE

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1. INTRODUCTION

1.1 SCOPE

This DEP specifies requirements and gives recommendations for preparing and maintaining data for use in case of a well emergency. Emergency response data is applicable to all wells, including, but not limited to exploration, appraisal, development, water, and relief wells, and pilot holes. Furthermore, it is also applicable to active producer, injector and disposal wells.

The purpose of this DEP is to ensure that reliable data is available during the drilling and operating of all wells and can be accessed quickly in case of a well emergency.

It is not in the scope of this DEP to specify which discipline(s) will perform the analyses and quality control of the data, nor the responsibility for maintaining the data. These responsibilities vary between regions and OUs. However, in most areas, PG carries the responsibility for ER data sets for new development wells, whereas PT is responsible for existing wells.

This DEP is related to the DCAF control Well Programme (DCAF ID375).

The custodianship and accountability for this DEP resides with the Production Geology Discipline Head.

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 2014; see (1.5) regarding the changes.

1.2 DISTRIBUTION, INTENDED USE AND REGULATORY CONSIDERATIONS

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This DEP is intended for use in facilities related to oil and gas production. This DEP may also be applied in other similar facilities.

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.

The **Principal** is the party that initiates the project and ultimately pays for it. The Principal may also include an agent or consultant authorised to act for, and on behalf of, the Principal.

The word **shall** indicates a requirement.

The capitalised term **SHALL [PS]** indicates a process safety requirement.

The word **should** indicates a recommendation.

The word **may** indicates a permitted option.

1.3.2 Specific definitions

Term	Definition
DCAF	Discipline Controls and Assurance Framework
HSE-CA	Health, Safety and Environment - Critical Activity
MOPO	Matrix of Permitted Operations
OU	An organisation within a region involved in hydrocarbon exploration and production within a country
PG	Production Geology
PP	Petrophysics
PT	Production Technology
Region	An organisation within Upstream International or Upstream Americas that represents a group of Assets involved in hydrocarbon exploration and production, often spanning across national boundaries.
WE	Well Engineering

1.4 CROSS-REFERENCES

Where cross-references to other parts of this DEP are made, the referenced section number is shown in brackets (). Other documents referenced by this DEP are listed in (5).

1.5 SUMMARY OF MAIN CHANGES

This DEP is a full revision of the DEP of the same number dated February 2014. As part of the DEP500 exercise (PT2020), clarity of requirements were verified and a sharper focus on risk-related requirements led to a reduction in shall statements.