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DARUSSALAM

Oil and Gas Exploration and Production Guidelines

VOLUME 9

DECOMMISSIONING AND RESTORATION GUIDELINES



كمنترين تنانگ دان فراندوسترين
KEMENTERIAN TENAGA (ENERGY) DAN PERINDUSTRIAN
MINISTRY OF ENERGY AND INDUSTRY

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Contents

ABBREVIATIONS	4
INTRODUCTION	6
OBJECTIVE OF THE DECOMMISSIONING AND RESTORATION GUIDELINES	6
INTENDED USERS OF THIS GUIDELINE	6
KEY DEFINITION IN THIS GUIDELINE	7

ABBREVIATIONS

ADG	ASCOPE Decommissioning Guidelines
ADH	ASCOPE Decommissioning (Technical) Handbooks
ADH (BD)	ADH (for Brunei Darussalam)
ASCOPE	ASEAN Council on Petroleum
ASEAN	Association of South East Asian Nations
AWJ	Abrasive Water Jet
BPEO	Best Practice Environmental Option
CA	Comparative Assessment
CO ₂	Carbon Dioxide
COMAH	Control of Major Accident Hazards Regulations (Amendment) 2017
COP (COO)	Cessation of Production (or Operation)
CSRA	Cost & Schedule Risk Assessment
DOALOS	Division for Ocean Affairs and the Law of the Sea
D&R	Decommissioning & Restoration
DSV	Dive Support Vessel
DP	Dynamic Positioning (of Vessels)
EEMS	Environmental Emissions Management System
EEZ	Exclusive Economic Zone
EoFL	End of Field Life
EPMO	Environmental Protection & Management Order, 2016
ESHIA	Environmental, Social & Health Impact Assessment
GJ	Gigajoules
HLV	Heavy Lift Vessel
HP	High Pressure
IMO	International Maritime Organisation
IRPA	Individual Risk per Annum
JASTRe	Department of Environment, Parks and Recreation, Ministry of Development
LAT	Lowest Astronomical Tide
m	Metres
MEI	Ministry of Energy and Industry
MSF	Module Support Frame
OOM	Order of Magnitude
PLL	Potential Loss of Life
PLT	Project Leadership Team
QRA	Quantitative Risk Assessment
ToR	Terms of Reference
Review Panel	A body consists of MEI Upstream and HSE division and other relevant Government agencies
ROV	Remotely Operated Vehicle
ROVSV	ROV Service Vessel
SIMOPS	Simultaneous Operations
SLV	Single Lift Vessel
SSCV	Semi-Submersible Crane Vessel
SHENA	Safety, Health and Environmental National Authority
Te	Metric Tonnes
UAP	Unallocated Provision
UNCLOS	United Nations Convention on the Law of the Seas

WCROV

Work Class ROV

WSHO

Workplace Safety & Health Order

Written Notification

Written Notification of Prescribed Activities (EPMO)

INTRODUCTION

The Decommissioning and Restoration Guidelines is Volume 9 of The Brunei Oil and Gas Exploration and Production Guidelines. This volume provides guidelines for the oil and gas operators in Negara Brunei Darussalam in the planning, execution and post implementation of the Decommissioning and Restoration (D&R) activities.

This Guideline consists of five Chapters covering the following areas:

- CHAPTER 1 – Overview of the Decommissioning & Restoration Guidelines
- CHAPTER 2 – Decommissioning & Restoration for Onshore Facilities
- CHAPTER 3 – Decommissioning & Restoration for Offshore Facilities
- CHAPTER 4 – Comparative Assessment Approach for Decommissioning & Restoration
- CHAPTER 5 – Well Plug and Abandonment

OBJECTIVE OF THE DECOMMISSIONING AND RESTORATION GUIDELINES

The objective of these Guidelines is to have a consistent approach for all duty holders in the development, submission, review, acceptance and undertaking of D&R activities of onshore and offshore facilities including and not limited to above ground and underground onshore structures, above and below sea level offshore structures, wells, pipelines, jackets, topsides, umbilicals and cables.

These Guidelines are developed and designed to be followed in line with applicable national legislation, directives and government policy in conjunction with regional guidelines & international obligations and standards.

And will be used to:

- [A] Define the acceptable technical and environmental parameters for D&R of oil and gas wells, facilities & infrastructure in Brunei Darussalam;
- [B] Assess whether a particular component of a Concession / Block is to be included within the scope of a D&R Submission;
- [C] Complement the process which must be followed for development, submission, review and acceptance of the associated D&R Submission through provision of additional guidance or frameworks;
- [D] Align expectations as to what the D&R Submission needs to reflect;
- [E] Define the acceptable rationale necessary for the acceptance of the D&R Submission;
- [F] Facilitate efficient acceptance of the D&R Submission;
- [G] Ensure the requirements of the accepted D&R Submission are fulfilled; and
- [H] Close-out all aspects of the D&R Submission to the satisfaction of the Authority.

INTENDED USERS OF THIS GUIDELINE

The intended users are all entities involved in the development, submission, review, acceptance and undertaking of D&R of oil and gas wells, facilities & infrastructure both onshore and offshore in Brunei Darussalam and will be released through the Authority website.

KEY DEFINITION IN THIS GUIDELINE

AUTHORITY/AUTHORITIES

Ministry of Energy and Industry Upstream division is the focal point for the D&R Submission process and the Authority for Cessation of Production (or Operation) COP (COO) declaration

Ministry of Energy and Industry HSE division is the Authority for Safety and Health

JASTRe Ministry of Development is the Authority for Environment

AUTHORITIES means the Review Panel. The Review Panel is made up of a team of various Government agencies of different ministries which has authority on designated subjects or areas and include MEI Upstream and HSE division.

OTHERS

In this Guideline, use of;

‘shall’ means such practice or method that reflects absolute requirement. In exceptional cases where compliance is not achieved due to technical, operational or HSE reasons, exceptions shall be documented and reported, and all risks mitigated. Please note that this does not release the Duty Holder from the obligation to comply with the Guidelines.

‘should’ means such practice or method that reflects best operating practice. The Duty Holder is generally expected to comply or come up with an alternative.

‘could’ means such practice or method is of an advisory nature. The Duty Holder is not obligated to comply or explain if not in compliance.

‘decommissioning’ means the process of taking a facility, well, pipeline or other conveyance system from cessation of production (or operation) of that facility, well, pipeline or other conveyance system to the final declared state of that facility, well, pipeline or other conveyance system, and includes the planning and implementing of any activity required to achieve that final declared state.

‘restoration’ means the actions required to take a location site to its final declared state.

‘final declared state’ means an agreement between the duty holder and the competent authority on the expected condition of –

- (a) The facility, well, pipeline or other conveyance system; and
- (b) The location site

at the end of the decommissioning and restoration process, taking into consideration the health, safety and environmental matters and the regulatory requirements.

‘conveyance system’ means any apparatus connected to the facility used to transport any material in liquid, gaseous or solid form in bulk between two locations.

‘hazardous substance free’ means threshold values for the hazardous substances that is stated by the Duty Holder and based on industry best practice

'material change' (in COMAH) means any change in design or operations that is significant to require a re-submission of the notification or Safety Case, and includes –

- (a) Physical changes to the plant;
- (b) Changes to operational parameters;
- (c) Organizational or staff changes; or
- (d) Change in risk profile

'material change' (in EPMO) means any change in environmental impact that is significant to require a re-submission of the notification of prescribed activities to the Authority, and includes –

- (a) Physical changes to the premises;
- (b) Changes to operational parameters of the facility;
- (c) Change in risk profile or environmental impact;