



## Cliff Head Field Offshore Operations Environment Plan

This document provides notification of NOPSEMA’s decision made under regulation 10 of the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Environment Regulations). In this instance, NOPSEMA is providing an opportunity to modify and resubmit the environment plan as it is not reasonably satisfied that the plans meets the acceptance criteria set out in the regulations.

### Submission information

<b>Titleholder<sup>1</sup>:</b>	Roc Oil (WA) Pty Ltd
<b>Environment plan:</b>	Cliff Head Field Offshore Operations Environment Plan, revision 6a, 10/HSEQ/ENV/PL01
<b>Petroleum title(s)/Application number(s):</b>	WA-31-L and WA-12-PL
<b>Date submitted to NOPSEMA:</b>	26/08/2016
<b>Activities type(s)<sup>2</sup>:</b>	<ul style="list-style-type: none"> <li>• Operation of a facility</li> <li>• Operation of a pipeline</li> <li>• Drilling</li> </ul>
<b>Activity overview:</b> <i>As described on the NOPSEMA website.</i>	<p>The Cliff Head oil field is located off the Western Australian coast (in Production Licence WA-31-L), west of the Big Horseshoe Reef; approximately 20 km south-southwest of Dongara. The water depth in the vicinity of the field is approximately 18 m and the closest landfall is some 11 km due east. The activity includes the operation and maintenance of:</p> <ul style="list-style-type: none"> <li>• An unmanned well head platform, Cliff Head Alpha (CHA) to accommodate the well heads and support equipment located at 29° 27' 00.4" S 114° 52' 12.1" E.;</li> <li>• Eight well heads with the current arrangement of five production wells with electrical submersible pumps (ESPs) to enable artificial lifting of the produced fluid (i.e. crude oil and water), and three water injection wells;</li> <li>• An insulated subsea production pipeline, which transports the produced fluids from CHA to the onshore Arrowsmith Stabilisation Plant (ASP);</li> <li>• An insulated subsea water injection pipeline from ASP to the three injection wells at CHA; and</li> <li>• A subsea power and communication cable, and chemical supply umbilical running from ASP to CHA.</li> </ul> <p>The production pipeline transports the produced fluids from the CHA to the ASP where oil is separated from the produced formation water (PFW). The PFW is then transported via the water injection pipeline to the injection wells, where it is injected into the geological formation that hosts the hydrocarbon reservoir.</p>

The offshore components of the pipelines that lie within Commonwealth waters are approximately 4.9 km in length and are operated under pipeline licence WA-12-PL. The offshore components of the pipelines that lie within state waters (i.e. between the state waters limit and the mean low water mark) are approximately 6.9 km in length and are operated under pipeline licence TPL/18, which is administered by the Western Australian Department of Mines and Petroleum (DMP).

The production and water injection pipelines traverse the seabed within Commonwealth waters, avoiding sensitive areas such as Horseshoe reef. The pipelines cross into State waters at approximately -29° 23' 59.9994" S 114° 54' 0" E.

<b>Decision:</b>	Not reasonably satisfied
<b>Decision date:</b>	22/09/2016
<b>Resubmission due date3:</b>	7/11/2016
<b>Decision made by:</b>	Representative of NOPSEMA: Environment Manager - Seismic & Production Operations

## Basis of decision

NOPSEMA has assessed the environment plan in accordance with its assessment policies and procedures. On completion of assessment, NOPSEMA has decided that it is not reasonably satisfied that the environment plan meets the criteria below as set out in regulation 10A of the Environment Regulations:

- (a) is appropriate for the nature and scale of the activity
- (b) demonstrates that the environmental impacts and risks of the activity will be reduced to as low as reasonably practicable
- (c) demonstrates that the environmental impacts and risks of the activity will be of an acceptable level
- (d) provides for appropriate environmental performance outcomes, environmental performance standards and measurement criteria
- (e) includes an appropriate implementation strategy and monitoring, recording and reporting arrangements
- (g) demonstrates that:
  - (i) the titleholder has carried out the consultations required by Division 2.2A
  - (ii) the measures (if any) that the titleholder has adopted, or proposes to adopt, because of the consultations are appropriate

## Titleholder requirements

In accordance with regulation 10, the titleholder is required to modify and resubmit the environment plan. Upon resubmission of the plan, NOPSEMA will continue to assess the submission in accordance with its assessment policies and make a decision under regulation 10. After a titleholder has been provided with reasonable opportunity to modify and resubmit an environment plan, NOPSEMA will make a final decision on whether to accept or refuse to accept the environment plan.

## How to get further information

If you have any further questions regarding the activity it is suggested you contact the titleholder's nominated liaison person for the activity.

If you would like to access any further information regarding this decision, or would like to contact NOPSEMA please email [environment@nopsema.gov.au](mailto:environment@nopsema.gov.au).

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<sup>1</sup> A titleholder includes an applicant for a petroleum access authority, petroleum special prospecting authority, pipeline licence, greenhouse gas search authority or greenhouse gas special authority under sub-regulation 9(2).

<sup>2</sup> Activity type as listed in the Offshore Petroleum and Greenhouse Gas Storage (Regulatory Levies) Regulations 2004

<sup>3</sup> NOPSEMA sets the proposed timeframe for resubmission; after which NOPSEMA may determine a reasonable opportunity has been given and NOPSEMA may refuse to accept the plan. Titleholders can request an extended timeframe.