





WELL EXPERTISE

Well Expertise Verification Report

Oceaneerings deliveries to Oselvar PP&A


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	Name:	Date:	Signature:
Prepared by:	<i>Sturla Jensen</i>	<i>08/03/2021</i>	
Approved by:	<i>Anniken B. Meisler</i>	<i>08/03/2021</i>	



Verification Report - Oceaneering deliveries to Oselvar PP&A and Gomez exploration well

[OSE-DNO-S-RA-0030] Verification Report - Oceaneering deliveries to Oselvar PP&A and Gomez exploration well

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	Date	Name	Position	Signature
Prepared by:	26/02/2021	Eirik Enge	Senior HSE Advisor	<i>Eirik Enge</i>
Verified by:	08/03/2021	Anniken B Meisler	HSEQ Coordinator	<i>Anniken B. Meisler</i>
	08/03/2021	Arild Eugen Lund	HSEQ and Risk Lead	<i>Arild Eugen Lund</i>
	08/03/2021	Sturla Jensen	Senior Subsea Engineer	<i>Sturla Jensen</i>
Approved by:	22/03/2021	Stein A. Tonning	Drilling & Wells Manager	<i>Stein Arild Tonning</i>
Responsible Party:	 <p>DNO Norge AS Badehusgata 37, N-4014 Stavanger, Norway P.O. Box 404, N-4002 Stavanger, Norway</p>			
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Security Classification	
Open	<p>No consequence</p> <p>Information that has already been published (e.g. on Internet or in brochures) or released for publication by competent unit shall be classed 'Open'</p>
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1 Introduction

DNO Norge AS (DNO) will be conducting Permanent Plug and Abandonment (PP&A) on the Oselvar field and drill the Gomez exploration well with the semi-submersible drilling rig Borgland Dolphin with planned start up in end March 2021.

A risk-based approach is applied for follow up of contractors and subcontractors and an audit, review, and verification (ARV) plan has been established to assure DNO that critical activities and services related to the projects are following contractual and regulatory expectations. The main goal is to ensure that DNO, contractors and subcontractors involved in the DNO operations, are competent and prepared to perform the activities in a safe and prudent manner.

As a part of the ongoing preparations for the upcoming activities, DNO performed a verification of Oceaneering on their planning and readiness related to their scope of work delivery, ROV services.

The verification was conducted 24th of February 2021 on Teams according to agenda and timing given in [Chapter 3](#).

2 Scope of the verification

Oceaneering was asked to present information to cover the topics listed below:

Scope

1. Short company information/presentation (DNO, Oceaneering)
2. Quick summary of Management system (Oceaneering)
 - Management system interface towards rig procedures and processes
 - HSEQ reporting/system
 - Lessons learnt and implementation of lessons learnt, with relevant example(s).
 - Statistics and performance on NCS and Borgland Dolphin in particular
 - Historical ROV failures on Borgland Dolphin & how they were resolved or overcome
 - Explain issues (if any) and experiences on previous operations
 - NPT statistics
3. Service delivery and SoW (Oceaneering)
 - Personnel
 - Selection of personnel to support DNO for the Oselvar and Gomez projects.
 - Borgland Dolphin specific experience and competence of offshore and onshore personnel
 - Relevant competence and training of offshore personnel in general and with fiber optic terminations
 - Assurance that the Coordinator is following the projects through.
 - Equipment
 - Please explain internal procedure checking and measuring equipment prior to shipment.
 - Please explain how to ensure equipment availability
 - Please explain how quality control of equipment incl. maintenance, certification is maintained
4. Presentation of Oceaneering handling/risk assessments of the COVID-19 pandemic with mitigating measures.

Prior to the verification the verification team received the following documentation:

- Incident Management, Non-Conformance, Corrective and Preventive Action- Oceaneering
- Oceaneering AS Operating Model Overview SSR & OPG, 20.05.2020
- Oceaneering ROV Training U-102
- Oceaneering ROV Planned Maintenance System, rev. G
- OAS Supplier Audit Schedule 2021, rev 1
- OAS External Audits 2018-2020

3 Time Plan/Agenda

Time	Agenda
09:00 – 09:15	Presentation of attendees and background for the verification (DNO/Oceaneering)
09:15 – 10:15	Presentation of the Management System (Oceaneering)
10:15 – 10:45	Presentation of Service delivery and SoW- Personnel (Oceaneering)
10:45 – 11:15	Presentation of Service delivery and SoW- Equipment (Oceaneering)
11:15 – 11:45	Lunch
11:45 – 12:15	Presentation of Covid-19 handling/RA and mitigating measures (Oceaneering)
12:15 – 12:45	Verification Team Internal Summery (DNO)
12:45 – 13:00	Verification Closure Meeting (DNO/All)

4 Participants

DNO Norge	Oceaneering
Sturla Jensen – Senior Subsea Engineer & Verification Team Lead	Egil Egeland, Director, SSR & OPG Operations
Grethe Lønø - Sr. Drilling Engineer	Therese Elisabet Aarnæs, Subsea Robotics, Area Lead
Eirik Enge – Senior HSE Advisor	Sverre Johann Sverrisson, SSR Project lead
Anniken B. Meisler - HSEQ Coordinator	John Edward Berge, Quality Manager
Perry Kopperstad – Senior Subsea Engineer	Ole-Christian Fjeld, HSE Manager
Karina Ness Helle - Graduate	Dag Magnus Saxeide, Process Engineer
	Jan Inge Johanson, SSR Project Manager

Documented participation is shown in [Appendix B](#).

5 Summary

The goal with the verification was to verify Oceaneering' readiness for the Oselvar PP&A and the Gomez exploration well operations related to the verification scope ([Chapter 2](#)).

The verification was held in good atmosphere, the Oceaneering participants were very open and willing to explain and share information.

Our general impression is that Oceaneering is a professional company and is in good shape for the upcoming operations. Oceaneering will strengthen the deliveries for the DNO operations, especially the stability and experience in the organization where dedicated personnel with minimum 15 years of experience will be assigned to upcoming activities.

The risk-based approach Oceaneering use in all processes stand out as robust, incl. the handling of Covid-19.

5.1 Findings

3 observations were identified in the verification.

Observations	Responsible	Deadline
Observation 1: KPIs for 2021 – why chemicals categorized as Black (only red) are not in focus. The chemical in ROV on Borgland Dolphin is black. The verification team recommends that chemicals categorized as black are included in substitution plans	Oceaneering	01.04.2021
Observation 2: The presentation of Lessons learned and how these are communicated inside the company was somewhat unclear. Oceaneering to clarify and document the Lesson Learnt and the experience transfer process from one project to another. Please show the process in an example.	Oceaneering	01.04.2021
Observation 3: Oceaneering has a goal of zero first aid treatment cases for 2021, and a goal of less than 10 finger injuries. And in 2020 Oceaneering had 15 first aid cases related to finger injuries The verification team think there is a mismatch between the goal and the number of cases. Oceaneering to consider to set the first aid goal as a vision and not as a working target/KPI.	Oceaneering	01.04.2021

5.2 Follow-up actions

Some follow up actions were identified in the verification, ref table below. The follow up and closing of these actions will be handled between the contact persons in the respective companies.

Follow Up Actions	Responsible	Deadline
Send investigation reports for the 4 HIPOs in 2020	Oceaneering	01.04.2021
Send an overview over Supervisors and ROV-pilots dedicated to Borgland, important that they have PP&A subsea experience (ROV Crew competency verification sheet) – when decided	Oceaneering	22.03.2021
Send a set-up list for ROV – secure that needed extra tools are implemented (cameras etc.)	Oceaneering	Received - OK
Send MG145 maintenance plan	Oceaneering	Received - OK
Send experience/number of hours related to use of hydraulic oil categorized as yellow	Oceaneering	01.04.2021
DNO check with Aker if they can recommend a hydraulic oil with better environmental category that functions for their tools (check if they have tested their tools to be compatible with new oil)	DNO	01.04.2021 (ongoing, but need Oceaneering experience info above)
Plan for a test dive of the ROV in Feda (due to idle period) DNO to check possibilities for getting two persons onboard	DNO	ROV test drive performed 17.03.2021
Oceaneering and DNO to send presentations, and Oceaneering to send name and position for the persons present	DNO & Oceaneering	Done
Information related to Dolphin's HSE courses <ul style="list-style-type: none"> ○ All personnel staying onboard Borgland need Dolphin Drilling's HSE Introduction course (2 years validity) and Traveling and Living Onboard course ("eternal" validity) ○ Oceaneering must provide access to their respective employees. The company must have a dedicated administrator. If new administrator is to be entered in Trainingportal, they must send the full name and e-mail address of the admin to Else Østebø at Else.Ostebo@dolphindrilling.com 	Oceaneering to secure that this is in place	Before personnel arrives on Borgland, during the whole operation

6 Appendices

[Appendix A](#): Notification letter

[Appendix B](#): "Signature list"

Appendix A – Verification notification

DATE and TIME : 24.02.2021 at 09:00-13:00
 WHERE : Online on Teams
 TO : Oceaneering
 ATT. : Jan Inge Johanson
 E-MAIL : JJJohan@oceaneering.com
 OUR REF. : Oselvar PP&A and Gomez exploration well delivery verification
 COPY TO : Arild Lund, Eirik Enge, Einar Framnes, Stein A. Tønning, Bjarne Syre, Morten
 Laget, Sigve K. Næsheim, Stig Seland, Karina Helle, Anniken B. Meisler, Grethe
 Lønø, Øystein Prytz, Perry Kopperstad
 FROM : Sturla Jensen
 E-MAIL : sturla@wellexpertise.com
 MOBILE : +47 930 16 723

NOTIFICATION OF VERIFICATION OF ROV SERVICES AT BORGLAND DOLPHIN

Dear Sir.

As a part of the ongoing preparations for our permanent plugging and abandonment (PP&A) of the Oselvar wells and the future Gomez exploration well, DNO Norge AS (DNO) plan to perform a Verification of Oceaneering on planning and readiness related to the SoW delivery for ROV services at Oselvar PP&A and Gomez exploration well.

We plan to perform the verification 24th of February 2021 according to agenda and timing given below. The verification will be performed on Teams.

Scope

1. Short company information/presentation (DNO, Oceaneering)
2. Quick summary of Management system
 - Management system interface towards rig procedures and processes
 - HSEQ reporting/system
 - Lessons learnt and implementation of lessons learnt, with relevant example(s).
 - Statistics and performance on NCS and Borgland Dolphin in particular.
 - Historical ROV failures on Borgland Dolphin & how they were resolved or overcome.
 - Explain issues (if any) and experiences on previous operations
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 - Personnel
 - Selection of personnel to support DNO for the Oselvar and Gomez projects.
 - Borgland Dolphin specific experience and competence of offshore and onshore personnel
 - Relevant competence and training of offshore personnel in general and with fiber optic terminations
 - Assurance that the Coordinator is following the projects through.

- Equipment
 - Please explain internal procedure checking and measuring equipment prior to shipment.
 - Please explain how to ensure equipment availability
 - Please explain how quality control of equipment incl. maintenance, certification is maintained

4. Please present Oceaneering handling/risk assessments of the COVID-19 pandemic with mitigating measures

Timing

24.02.21, online via Teams.

Indicative time plan:

09.00 – 09.15 Presentation of attendees and background for the verification (DNO/Oceaneering)
 09.15 – 10.15 Presentation of Management System (Oceaneering)
 10.15 – 10.45 Presentation of Service delivery and SoW - Personnel (Oceaneering)
 10.45 – 11.15 Presentation of Service delivery and SoW - Equipment (Oceaneering)
 11.15 – 11.45 Break/Lunch
 11.45 – 12.15 Presentation of Covid-19 handling/RA and mitigating measures (Oceaneering)
 12.15 – 12.45 Verification Team Internal Summary (DNO)
 12.45 – 13.00 Verification Closure Meeting (All)

We will take short breaks as convenient.

Please send email addresses of relevant Oceaneering personnel to the undersigned for invitation to this verification activity in Teams.

Request for information

Prior to the verification, and within 19.02.2021, the verification team would like to receive the following documentation:

- Relevant QHSE procedures (related to scope)
- Verification reports
 - Internal audits/verifications relevant for Oselvar and Gomez projects (last year)
 - External audits done by 3rd parties (last 3 years)
- Audit and verification plan for 2021
- Project Specific Organogram
- Project Specific Competence and training documentation
- Procedure(s) for checking and measuring equipment

The verification team

Sturla Jensen	Senior Subsea Engineer, DNO	Verification Team Lead
Stein A. Tonning	Drilling & Wells Manager, DNO	Participant
Anniken B. Meisler	HSEQ Coordinator, DNO	Participant
Grethe Lønø	Senior Drilling Engineer, DNO	Participant
Eirik Enge	HSE Advisor, DNO	Participant
Perry Kopperstad	Senior Subsea Engineer, DNO	Participant

Reporting

The verification team will present a summary with observations and/or improvement items in a closing meeting at the end of the verification. The formal report will be issued within two (2) weeks after the verification.

Please confirm by e-mail (sturla@wellexpertise.com) that date and timing for this verification is OK for required Oceaneering personnel.

If need for clarifications related to this notification or the verification activity, please contact the undersigned.

Kind Regards,



Sturla Jensen

Verification Team Lead

Well Expertise AS, on behalf of DNO Norge AS

sturla@wellexpertise.com

+47 930 16 723

Appendix B – Participants, « Signature List »

As the verification was held on Teams, a screenshot of the persons present was taken to document presence.

