



Odfjell Rig Intake Review Meeting Report

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1 EXECUTIVE SUMMARY

As a part of the rig intake and preparations for the Tomcat HPHT exploration well, PGNiG Upstream Norway AS (PUN) performed an onshore review of Odfjell Drilling AS (Odfjell) on both HSE- and technical aspects.

The Review was held at Odfjell's premises at Kokstadflaten 35 in Bergen.

The review was held in a good atmosphere, the Odfjell participants were very open and willing to explain and share information.

The verification team identified one **(1)** non-conformity, zero **(0)** improvement points, zero **(0)** observations and 23 actions. The findings are listed in Chapter 4.

Odfjell is requested to respond within two weeks of receiving this report on how they intended to handle the findings and sending PUN the required information.

The verification team's impression is that Odfjell is a rig company that has a well-functioning business management system. Odfjell is ISO 9001, 14001 certified and the management system is prepared according to ISO 45001 and 50014. A separate competence review meeting will be scheduled closer to spud.

2 INTRODUCTION

2.1 BACKGROUND

PGNiG Upstream Norway AS (PUN) has completed the rig selection process and made an agreement with Odfjell Drilling (Odfjell) to utilize Deepsea Yantai (DSY) for the exploration well Tomcat on a back-to-back operation with either Neptune or Shell.

PUN has previous experience with Odfjell and is familiar with Odfjell's Management system since they utilized Deepsea Nordkapp (DSN) in 2019 for their exploration well, Shrek and DSY for their exploration well Copernicus in 2022. PUN is also a license partner in the Duva field which was drilled by DSY and operated by Neptune.

PUN is planning to drill the exploration well "Tomcat" 6305/10-1 in Q2-Q3 2024.

The Tomcat prospect is located in block 6305 in the Norwegian Sea, approx. 139 km west of Kristiansund and about 69 km from the Norwegian coastline. The closest installation is Njord A, approx. 174 km North of Tomcat. The water depth at the planned well location is +/- 366.7m.

The Tomcat well is a HPHT with an estimated temperature of 156.5 at TD.

The well will be drilled with the rig moored on location.

2.2 PURPOSE

The purpose of this report is to document and capture findings from the Rig Intake Review with the Odfjell onshore organisation. Summary of reviewed topics can be found in [Appendix C](#).

2.3 VERIFICATION PROCESS

The mandate of the Rig Intake Team (RIT) was to ensure that the drilling rig DSY is fit for purpose for drilling the Tomcat HPHT exploration well. A rig intake plan has been established, including all planned meetings/verifications, ref. [1]. The rig intake QHSE and technical meeting are part of the verification activities in the rig intake plan.

2.4 SCOPE

The scope for the verification can be seen in Appendix A – Notification Letter or in Appendix C - Summary of reviewed topics.

2.5 ABBREVIATIONS

AoC	Acknowledgement of Compliance
AMU	Arbeids Miljø Utvalg
BMS	Business Management System
BOP	Blowout Preventer
BSR	Blind Shear Ram
CWO	Corrective Work Orders
DSV	Drilling Supervisor
DSY	Deepsea Yantai
ESD	Emergency Shutdown System
EX	Explosion
HSEQ	Health, Safety, Environment and Quality
HWDP	Heavy Weight Drill Pipe
IFS	Name of Maintenance System
IMP	Improvement Suggestion
ISM	International Safety Management
ISO	International Organization for Standardization
ISPS	International Ship and Port Facility Security Code
KPI	Key Performance Indicator
M	Minor
MA	Major
NC	Non-Conformance
NMA	Norwegian Maritime Authorities
NPT	Non-Productive time
O	Observation
Odfjell	Odfjell Drilling AS
OIM	Offshore Installation Manager
PSA	Petroleum Safety Authority (Petroleumstilsynet)
PSV	Platform Supply Vessel
PUN	PGNiG Upstream Norway AS
RIT	Rig Intake Team
S	Significant
SCE	Safety Critical Elements
TD	Target Depth
VDR	Voyager Data Recorder
WEAC	Working Environment Area Chart
WO	Work Orders

2.6 DEFINITIONS

Barrier	Technical, operational, and organizational elements that individually or together to reduce the possibility that specific error, hazard and accident occurs, or restrict or prevent damage/inconvenience.
Improvement proposals	Non-fulfilment of a requirement related to an intended or specified use (opportunities for improvement)
Non-Conformance	Non-fulfilment of a requirement
Synergi	Electronic system for incident reporting and capturing of lessons learned
Verification	Confirmation, through the provision of objective evidence, that specified requirements have been fulfilled.

3 REVIEW MEETING

3.1 GENERAL

The Review meeting was held 26th of September at Odfjell's headquarter; Kokstadflaten 35, in Bergen. Personnel participated in person.

A review notification was sent to Rig Manager September 8th, 2023, ref. [Appendix A](#).

The topics addressed in the meeting were selected by reviewing previous verification and audit activities (performed by the previous operators such as Wellesley, DNO, Neptune, OMW and Vår) and those risks identified in the PL1055 Tomcat Rig Intake Risk Register.

3.2 PARTICIPANTS

Name and position of the participants is listed in in Table 3-1. A signed participants list can be found in [Appendix B](#).

Table 3-1 List of participants in the review

Participants	Role	Company
Nils H. Lilleløkken	Drilling Manager	PUN
Michael George Smith	HSE Advisor	PUN
Stig Seland	Rig Intake Lead	PUN
Åse Pettersen	HSEQ Coordinator	PUN
Sanne Risbakk	Environmental Coordinator	PUN
Endre Vambheim	Ass. Rig Manager	Odfjell
Jon Anders Kvinge	QHSE Advisor	Odfjell
Kenneth Holm Andersen	Technical Superintendent	Odfjell
Terje Fylkesnes	Ass. Technical Superintendent	Odfjell
Stig Møgster	Subsea Superintendent	Odfjell
Tina Tunes	Security & EP Advisor	Odfjell
Edwin Van Gelder	CSO + EP Manager	Odfjell

3.3 REVIEW PROCESS

The review was conducted 26th of September according to agenda in Table 3-2.

Odfjell presented the requested topics and the review team asked questions. Requested documents were reviewed in advance.

Odfjell Drilling gave a series of presentations on the topics requested by the RIT followed by questions and answers and discussions per section presented.

Clarifications were made during the review and findings summarised in [chapter 4](#).

Table 3-2 Agenda

Time	Agenda
09:15 - 09:30	Presentation of attendees
09:30 - 10:00	Odfjell Presents AoC Exemptions and compensating measures
10:00 - 11:15	Odfjell Presents topics according to scope given in Appendix A.
11:15 - 11:45	Lunch
11:45 - 15:15	Odfjell Presents topics according to scope given in Appendix A.
15:15 - 15:30	Summary (Stig Seland)

Status of requested documents can be found in Table 3-3.

Table 3-3 Status on requested documents

Document	Received	Requires follow up
AoC List of Short- and Long-Term Exemptions	Yes	No
List of internal deviations	Yes	No
Class Status Report	Yes	Yes
Updated Measurement programme	No	Yes
Crew plan with colour coding (new on DSY, less than 3 years of experience)	Yes	No
Procedure for handling drones	No	Yes
Plan for monitoring of organisational and operational barriers	No	Yes
HAVS procedure	Yes	No
Critical Spares list	Yes	No
List of open synergies	Yes	No

4 FINDINGS

Findings are categorised as:

- Non-conformance (NC)
- Improvement Suggestion (IMP)
- Observation (O)

Non-conformances are classified as:

- Major (MA)
- Significant (S)
- Minor (M)

The reported non-conformances, improvement suggestions and observations shall be followed up as soon as possible and Odfjell is requested to **respond within 2 weeks** of receiving this report on how they intend to handle the findings and send PUN the needed information.

4.1 NON-CONFORMITIES

One (1) non-conformity was identified during the review, shown in Table 4.

Table 4 Non-conformities

NC No.	Description	Requirement	Responsible	Ref. to scope	Classification
NC-1	IOGP 476 has requirements for level one for roustabouts, crane operators and deck crew. Level 2 requirements for Roughneck, subsea eng. and derrickman. Odfjell has a non-conformance from IOGP 476 related to level 1 for crane operator, and deck crew and level 2 for derrickman and roughneck. Although IOGP 476 is a guideline, PSA communicated during previous audits of Wellesley and DNO that this is now a requirement.	Activity Regulation §21 IOGP-476. Appendix D.	J. A Kvinge	3.5	Significant (S)

4.2 OBSERVATIONS

No observations were identified during the review.

4.3 IMPROVEMENT SUGGESTIONS

No improvement suggestions were identified during the review.

4.4 ACTIONS

For more information related to the actions see Appendix C - Summary of reviewed topics.

A No.	Description	Ref. to Scope	Responsible	Status
1	Competence review meeting to be scheduled 1 month before spud.	1	Å. Pettersen	
2	A copy of following internal deviations is requested: 215012 222822 228564 228566 228568 228542	2	J.A. Kvinge	
3	Review agenda for Bi-weekly HSE meeting.	3	Å. Pettersen/J:A: Kvinge	
4	Odfjell to forward plan for organisational and operational barriers to be visualised	3.3	E. Vambheim	
5	New class status report to be sent when conditions are closed.	3.4/9c	E. Vambheim	
6	External audit plan (Odfjell's verification plan towards suppliers) to be forwarded	3.4	J.A. Kvinge	
7	Send information regarding level 1 and 2 course. Odfjell to send justification for requirements related to IOGP476	3.5	E. Vambheim	
8	DROPS survey from Axxess to be sent with status on findings. Both report and Synergi to be sent.	3.6/9d	J.A. Kvinge	
9	Experience with screen washer from DSN to be communicated.	4	J.A. Kvinge	
10	Forward HAVS procedure when ready.	4	J.A. Kvinge	

A No.	Description	Ref. to Scope	Responsible	Status
11	Prepare L3 procedure for handling of drones within 500m zone. What do one do if the drone lands on the rig?	7	J.A. Kvinge	
12	List of open synergies	Table. 3.3	J.A. Kvinge	
13	Send updated Helideck certificate	9c	K. H. Andersen	
14	Updated substitution plan 2023	6	J.A. Kvinge	
15	Update measurement program with Biobar 32 usage	6	J.A. Kvinge	
16	Forward overview document over energy usage for all equipment	6.3	K. H. Andersen	
17	Forward an overview over all energy conservation actions for DSY	6.3	c	
18	Prepare L3 procedure for handling of drones within 500m zone. What do one do if the drone lands on the rig?	7	J.A. Kvinge	
19	Follow up maintenance numbers	9	S. Seland	
20	Send new class status report when conditions are closed.	9c	E. Vambheim	
21	Send updated Helideck certificate	9c	E. Vambheim	
22	Odfjell to inform RIT on timing for startup of maintenance on diesel generators in due time.	9e	K. H. Andersen	
23	Findings from the Cranes and lifting verification to be followed up.	12	S. Seland	

5 CONCLUSION

The verification team's impression is that Odfjell is a rig company that has a well-functioning business management system. Odfjell is ISO 9001 and 14001 certified. The management system is also prepared according to ISO 45001 and 50014. A separate competence review meeting will be scheduled closer to spud.

The verification team identified one **(1)** non-conformity, zero **(0)** improvement points, zero **(0)** observations and 22 actions. The findings are listed in section 4.

Odfjell is requested to respond within two weeks of receiving this report on how they intend to handle the findings and send PUN the required information.

6 APPENDICES

[Appendix A](#) – Notification Letter

[Appendix B](#) – Participant List

[Appendix C](#) – Summary of reviewed topics

APPENDIX A – NOTIFICATION LETTER



Review Notification Letter

DATE and TIME: 26.09.23, at 09:15 – 15:30
WHERE: Kokstadflaten 35, 5257 Kokstad
TO: Odfjell Drilling AS
ATT.: Odd-Egil Snekkevik
E-MAIL: oes@odfjelldrilling.com
OUR REF.: Rig Intake for PGNiG
COPY TO: Nils Lilleløyken, Lill Gøril Seljelv, Piotr Boryczko, Michael Smith, Phil Hardy, Åse Pettersen, Anniken B. Meisler, Sanne Risbakk, Stian Engvik, John Anders Kvinge, Endre Vambheim
FROM: Stig Seland
E-MAIL: Stig@wellexpertise.com
MOBILE: +47 970 66 458

NOTIFICATION OF RIG INTAKE REVIEW OF ODFJELL DRILLING FOR THE TOMCAT DRILLING OPERATIONS

Dear Odd-Egil,

As a part of the rig intake and ongoing preparations for the upcoming drilling operations for PGNiG on their Tomcat HPHT well, PGNiG is planning to perform a review of Odfjell Drilling. Topics that will be covered is HSE related as well as technical.

Scope

Well Expertise conducted an onshore verification of Odfjell on behalf of PGNiG last year and a review meeting on behalf of Wellesley, DNO and Vår Energi this year. The planned meeting 26th of September is considered a follow-up of these meetings. The Rig Intake Team requests that Odfjell will present HSE and technical updates according to scope and timing given in Appendix A and B. In addition, the plan is to perform a rig inspection (s) when access to the rig. The notification for the rig inspection main scope will be sent separately by Well Expertise on behalf of PGNiG.

Timing

26th of September	(QHSE and Technical topics) at Odfjell's offices. Indicative time plan:
09:15-09:30	Presentation of attendees
09:30-10:00	Odfjell Presents AoC Exemptions and compensating measures
10:00-11:15	Odfjell Presents topics according to scope given in Appendix A (break when convenient)
11:15 - 11:45	Lunch
11:45- 15:15	Odfjell Presents topics according to scope given in Appendix A (break when convenient)
15:15- 15:30	Summary (Stig Seland)

Please invite relevant Odfjell personnel.



Request for information

Please make the following documentation available in the WE "data room" within 18th of September:

- AoC List of Short- and Long-Term Exemptions
- List of internal deviations
- Class Status Report
- Updated Measurement programme
- Crew plan with colour coding (new on DSY, Less than 3 years of experience)
- Procedure for handling drones
- Plan for monitoring of organisational and operational barriers
- HAVS procedure
- Critical Spares list
- List of open synergies
- ESG (Sustainability) policy/leaflets/documents

Review team

Nils Lilleløyken	Drilling Manager	PGNiG
Piotr Boryczko	SDE/Ass. Planning Team	PGNiG
Michael G. Smith	HSEQ Advisor	PGNiG
Stig Seland	Rig Intake Lead	Review Team Lead
Åse Pettersen	HSEQ Coordinator	HSEQ
Sanne Risbakk	Environmental Coordinator	HSEQ assistant

Reporting

A draft report will be issued within two (2) weeks after the review.

Please confirm by e-mail (stig@wellexpertise.com) that date and timing for this review is OK for required Odfjell personnel.

If need for clarifications related to this notification or the review activity, please contact the undersigned. We look forward to meeting Odfjell Drilling Personnel and hope that this review meeting will be of mutual benefit.

Kind Regards



Stig Seland
Review Team Lead
Well Expertise AS
Stig@wellexpertise.com
+47 970 66 458



Appendix A – Review Scope

1. ORGANISATION

- Onshore organisation chart
- Offshore organisation chart

2. DEEPSEA YANTAI'S NON-CONFORMANCES

Please prepare a short summary of:

- AoC exemptions
- Compensating measures
- Other internal deviations

3. HSE MANAGEMENT

3.1 HSE Program and Action plan

- Present statistics and incidents for DSY last 3 years
- Status on HSE Action plan for 2023

3.3 Barriers and performance Standards

- Present plan for monitoring of operational and organizational barriers
- Present status on physical barriers

3.4 Audits and improvements

- DSY Audit and verification plan for 2023
- Status on external and internal audits (PSA, NMA, etc)
- Status on class – conditions

3.5 Competence Management

- Competence matrix with regards to IOGP 476 / Offshore Norge 024.
- Present Crew/rotation plan

3.6 DROPS Management

- Status on annual DROPS survey

4. WORKING ENVIRONMENT

- Present Working environment Survey plan and status
- Status on current working environment issues (Exhaust, noise, ergonomics, oil vapor, etc.)
- FS - AMU – Any changes, main issues, next meeting
- Any news related to screen washer?
- HAVS – Status

5. EMERGENCY PREPAREDNESS

- Emergency preparedness training and exercise plan 2023
- How does Odfjell ensure that people are aware of their Safety Critical Tasks?
- How are Well Control training performed on the rig and logged?



6. EXTERNAL ENVIRONMENT

6.2 Chemical management

- Work on Substitution of chemicals
- Work on DSY Measurement Program

6.3 Energy management

- Please present how Odfjell Drilling ensures energy efficient operations on DSY.
- Status on Energy Management Plan

7. SECURITY

- Drones – routines
- How is DSY protected against hacking on to remote operated systems?

8. ESG AND SUSTAINABILITY

- ESG/sustainability KPIs
- Ongoing work related to sustainability

9. MAINTENANCE

- Status on the rig's maintenance? The following numbers will be tracked during the rig intake:
 - Total overdue corrective work orders (CWO) that are safety critical elements (SCE)
 - Total overdue planned work orders (WO) that are SCE
 - Total open CWO that are SCE
 - Total open planned WO that are SCE
 - Total open CWO that are not SCE
 - Total open planned WO that are not SCE
- Give an update on NPT's > 3 hrs on the rig and root causes
 - Riser/slip joint
 - Top drive
 - Pipe handling
 - Etc.
- Status on Class? (Certificates and conditions related to Class etc.)
 - Status on recent or upcoming modifications (mooring lines, other?)
- Any 3rd party service inspections done recently? Please provide overview.
- Any identified repairs, overhaul or replacements planned prior to and/or subsequent to the upcoming operations?
- Please provide a list of drilling and well related equipment installed and identified as temporary equipment.
- Please provide Critical spares list.
- When is next ESD test planned?

10. WELL CONTROL

- Status on WC equipment?
- Any modifications planned on BOP?

11. MARINE



- a. POSM00R ATA (Description of ATA system. Any known issues, limitations or problems with the system?)
- b. How does the operational manual describe and prepare for "severe weather" conditions?

12. CRANES AND LIFTING

- a. Status on Synergi related to lifting coach visit?
Any changes to Material handling plan?

APPENDIX B – PARTICIPANT LIST

Meeting: Review of Odfjell related to rig intake of DSY

Location: Odfjell Office, Bergen

Date: 26.09.23



Participants

Name	Role	Company	Mail
Nils Lillelokken	Dtg. Mgr.	PGNiG	n.lillelokken@pgnig.no
MIKE SMITH	HSE	PGNiG	michael.goo@pgnig.no smith@pgnig.no
Stig Mørster	Subsea SUP	Odfjell Drilling	stigm@odfjelldrilling.com
TERJE FILHESVES	ASSISTANT TECH SUP	ODFJELL	TFIL@ODFJELLDRIILLING.COM
John Anders Kvinge	GRUSE	Odfjell	ANUGA@odfjelldrilling.com
Sanne Ørskov	Environmental Coordinator	WE/PUN	sanne@wellexpertise.com
Stig Seland	Rig Intake Lead	WE/PUN	stig@wellexpertise.com
ÅSE K. RØTTEREN	HSEQ COORD.	WE/PUN	aase@wellexpertise.com
ENDRE VANHEIJL	ASS. RIG MANAGER	ODFJELL DRILLING	evam@odfjelldrilling.com
KENNETH H. ANDERSEN	TECH SUPER	ODFJELL DRILLING	kean@odfjelldrilling.com
TINA TUNES	SECURITY & EP AMB	ODFJELL DRILLING	TTUN@odfjelldrilling.com
EDWIN VAN GELDER	CSD+EP MANAGER	-	EDWG@odfjelldrilling.com

APPENDIX C - SUMMARY OF REVIEWED TOPICS

The summary of the reviewed topics is presented Table 6-1.

Table 6-1 Summary of reviewed topics

Main Topic	Description	Answer/Comment /Notes	Follow-up
1. Organisation	Onshore org. Offshore Org.	Changes since last meeting on onshore org. is that Rig Manager Odd Egil- Snekkevik is now reporting directly to Lars Morten Tveit who is the SVP Operations. Crew plan was presented, minor changes since last review by Vår. Will have a separate review of the crew plan closer to spud.	Competence review meeting to be scheduled 1 month before spud.
2. Non-conformities	AoC Exemptions with Compensating measures Other internal deviations	AoC Exemptions were presented. One short term and 4 long term exemption. One exemption, Lack of secondary escape routes from thruster rooms is due 19.06.2024 (214791). 22 Internal deviations were presented.	Follow up on short term exemption (Synergi 14791) A copy of following internal deviations is requested: 215012 222822 228564 228566 228568 228542

Main Topic	Description	Answer/Comment /Notes	Follow-up
3. HSE Management 3.1 Program and Action Plan	Present statistics and incidents for DSY last 3 years Status on HSE Action plan for 2023	Presented QHSSE Program and KPI's for 2023. DSY action plan – Q3 soon finalised. Presented KPI for the last 3 years. TRI: 3.93 (goal =2) TRI (12 months rolling): 2. Dropped objects: 3 (goal 3) 2020: 1 medical treatment 2021: 0 2022: 1 MT and 1 LTI 2023: 2 LTIs Presented Average fuel pr day presented in the morning report is for generators. Boilers are additional.	Review agenda for Bi-weekly HSE meeting.
3.3 Barriers and performance standards	Present plan for monitoring of operational and organisational barriers	System presented for physical barriers. L3-MODU-ALL-QU-023 Barrier strategy and L3-MODU-ALL-QU-PR-029 Barrier Management Manual. Physical Barriers are monitored in Power BI. These are discussed daily. The rig has a barrier dashboard on bridge. There is a separate project on monitoring of Organizational and Operational barriers. 2day course in barrier management scheduled Q1, 2024.	Odfjell to forward plan for organisational and operational barriers to be visualised

Main Topic	Description	Answer/Comment /Notes	Follow-up
3.4 Audits and improvements	DSY Audit and verification plan for 2023 Status on external and internal audits (PSA, NMA, Operators, etc.) Status on Class conditions	DSY Audit and verification plan was presented (Synergi 2285599) Several internal audits are planned: • Technical verification compliance& well control • Annual ISPS audit • Emergency preparedness audit • Technical verification E&I • ISM audit • Technical verification – maintenance& class • QHSE audit • Technical verification marine • NOVOS systems External audit plan was not presented. Current status on Class was presented (dated 01.09.2023= Conditions of class: CC66 New staircase – postponed 11.01.2023. CC67 Work platform for slop unit - postponed 11.01.2023 CC68 Fastening arrangement for slip joint – postponed 01.11.2023. CC69 Port offshore crane 07.10.2023 – Due CC70 Findings related to Stbd. Crane – 07.10.2023 – Due. CC71 Non-operational fire dampers – 09.10.2023 – Due CC73 Auxiliary boilers – 09.10.2023 – Due	New class status report to be sent when conditions are closed. External audit plan (Odfjell's verification plan towards suppliers) to be forwarded

Main Topic	Description	Answer/Comment /Notes	Follow-up
3.5 Competence Management	Competence Matrix with regards to IOGP 746/offshore Norge 024 Present crew rotation plan	Competence management were presented. Odfjell says they are following both Offshore Norge 024 and IOGP 476. Requirements set are: Level one for OIM and DPO. Level 1 is a web-based course. Level 2 for subsea engineer. IOGP 476 has requirements for level one for roustabouts, crane operators and deck crew. Level 2 requirements for Roughneck, subsea eng. and derrickman. Odfjell has a non-conformance from IOGP 476 related to level 1 for crane operator, and deck crew and level 2 for derrickman and roughneck. Although IOGP 476 is a guideline, PSA communicated during previous audits of Wellesley and DNO that this is now a requirement. Simulator training is carried out every 2 years for drilling crew. The training is tailored for ODL. Crew plan was presented.	Send information regarding level 1 and 2 course. Odfjell to send justification for requirements related non-conformance towards IOGP476
3.6 DROPS Management	Status on Annual DROPS survey	DROPS system was presented. Odfjell's procedure "L-3-MODU-ALL-HSE-PR-023 Preventing Dropped Objects" describes requirements for preventative measures to be implemented in order to prevent dropped objects. L4-MODU-DSY-E-MA-600 DROPS - Inspection Program DSY The rig has DROPS manuals with pictures for different levels in Derrick, these are done with 3-month intervals. These inspections are followed up in IFS. 12 months inspections are carried out by third party company or RIS.	DROPS survey to be sent with status on findings. Both report and Synergi to be sent.

Main Topic	Description	Answer/Comment /Notes	Follow-up
		Last survey was carried out 29.08.2022, ref. Synergi 227592. All actions are closed. New survey by Axess were ongoing. L3-MODU-ALL-HSE-PR-021 describes requirements for Work at height	
4. Working Environment	Working environment Survey plan and status Status on current working environment issues (exhaust, noise, ergonomics, oil vapour, etc.	Working environment survey plan was presented (synergi 218798) A 3-year plan is made I cooperation with ISOS. Survey plans for 2023: • Oil mist/vapor • HAVS • Radiation • Psychosocial • HHI pharmaceutical • Exhaust – planned November WEAC is recorded in Adept. Project ongoing related to benzene measurements. QHSE onshore, safety and medic are meeting bi-weekly to discuss WE issues. New 5- year project ongoing to change out to LED lights. New measurement needs to be taken after completion. Noise - There are some cabins (three) experiencing noise over the limits during different operational circumstances such as use of vacuum pump. Exhaust - Exhaust pipes from generators are extended, project is	N/A

Main Topic	Description	Answer/Comment /Notes	Follow-up
		completed however exhaust is still a major problem onboard. Oil vapour - Oil Mist / Oil Vapour measured to over the limits even on OBM temp 33deg. We have implemented mandatory use of reparatory protection in the Shaker when OBM is present.	
	FS - AMU – Any changes? Main issues? Next meeting.	No changes Trond Haugland represents operator and Terje Haslund from Oceaneering represent service. Safety delegates are elected for all departments (technical, marine, drilling and catering) and on all crews. There is one safety representative designated as the Head Safety Representative.	N/A
	Any news related to screen washer?	Screen washer is not yet installed. Screen washer is being tested at Deepsea Nordkapp (DSN). Cleaning of screens will result in Oil vapour in shaker room and personnel will be exposed. A screen washer will eliminate the problem.	Experience with screen washer from DSN to be communicated.
	HAVS - Status	Tools are marked according to procedure. Odfjell is currently establishing a group that will evaluate electric hand tools with regards to vibration and noise. HAVS procedure is currently being updated by ISOS.	Forward HAVS procedure

Main Topic	Description	Answer/Comment /Notes	Follow-up
5. Emergency Preparedness	Emergency preparedness training and exercise plan 2023	DSY's Emergency preparedness training and exercise plan is for 2,5 years. A snip was presented. Trainings and exercises are registered in Kongsberg's system Rig Manager. Description of what and how often the rigs shall train is to be found in procedure: L3-MODU-ALL-EP-PR-001 OFFSHORE EMERGENCY PREPAREDNESS DRILLS AND TRAINING	N/A
	How does Odfjell ensure that people are aware of their Safety Critical Tasks?	Odfjell use RIDER a Software solution for CAMS (Competence Assurance Management System). Current status on SECT Is 87,8%	N/A
	How are well control training performed on the rig and logged	Well Control training is logged in "Rig Manager". Third party is involved when relevant. All participants are logged.	N/A
6. External Environment 6.2 Chemical Management	Work on substitution on chemicals Work on DSY measurement program	A process was presented: Maintain chemical register and substitution plan. Plan and status were presented. L4-MODU-DSY-E-MA-506 Rig specific measurement program is not according to requirement, ref. WE-EA-2023-08 Environmental Verification on DSY	Update measurement program and forward to RIT.
6.3 Energy Management	Please present how Odfjell Drilling ensures energy efficient operations on DSY. Status on Energy	L-4-MODU-DSY-E-MA-801 DSY Unit Specific Energy Management Plan- USEP Monitored In Power BI. Power consumption by time. Average fuel pr day in the daily HSE report is just for generators. The	Forward overview document over all equipment and energy consumption

Main Topic	Description	Answer/Comment /Notes	Follow-up
	management plan	boiler will be additional. An overview of electrical equipment and energy consumption with possible energy saving initiatives. Requested documentation. Odfjell still reports a delay in live data on the Rig power and energy report.	Forward all energy saving initiatives planned for DSY
7. Security	Drones – routines	Information in welcome on board meeting that drone activity shall be reported to SCR/bridge immediately. SCR notifies OIM. DSV reports to 2nd line. Odfjell have "handlingsmønstre" managing drones, but these seem to be prepared for Equinor operations and for reporting. Routines for reporting of drone activity is described in bridging document.	Prepare L3 procedure for handling of drones within 500m zone. What do one do if the drone lands on the rig?
	How is DSY Protected against hacking to remote operated systems?	L1-CORP-IT-MA-006 Cyber Security management Manual L4-MODU-DSY-A-PR-105 Cyber Security Deepsea Yantai Norma Cyber is assisting Odfjell on Cyber Security (https://www.normacyber.no/)	N/A
8. ESG and Sustainability	ESG/Sustainability KPI's Ongoing work related to sustainability		
9. Maintenance	a. Status on the rig's maintenance? The following numbers will be tracked during the rig intake: Total overdue corrective	Total overdue corrective work orders (CWO) that are safety critical elements (SCE): 1 Total overdue planned work orders (WO) that are SCE: 0 Total open CWO that are SCE: 173	Follow up maintenance numbers

Main Topic	Description	Answer/Comment /Notes	Follow-up
	work orders (CWO) that are safety critical elements (SCE) Total overdue planned work orders (WO) that are SCE. Total open CWO that are SCE. Total open planned WO that are SCE Total open CWO that are not SCE. Total open planned WO that that are not SCE	Total open planned WO that are SCE: 125 Total open CWO that are not SCE: 72 Total open planned WO that that are not SCE: 551	
	b. Give an update on NPT's > 3 hrs on the rig and root causes. • Riser/slip joint • Top drive • Pipe handling - Etc.	5,75 hrs - Saversub wash out, unknown root cause. 79,25 hrs - Leak on annular element, unknown root cause – waiting feedback from analysis of element. 72 hrs - Change bearing draw work, root cause is not proper preservation, protection and lubrication from yard. Bearing house found partly filled with water and not properly greased. Damaged on bearing as fault spots on outer and inner ring, and on rolls.	N/A
	c. Status on Class? (Certificates and conditions)	• CC 66 (Ext. due date 1st Nov. 2023, related to new/ modified external staircases)	Send new class status report when conditions are

Main Topic	Description	Answer/Comment /Notes	Follow-up
	related to Class etc.)	• CC 67 (Ext. due date 1st Nov. 2023, related to documentation for the new slop unit platform) • CC 68 (Ext. due date 1st Nov. 2023, related to sea fastening arrangement for the slip joint) • CC 69 (Due date 7th Oct. 2023, related to findings on port crane) • CC 70 (Due date 7th Oct. 2023, related to findings on stbd. crane) • CC 71 (Due date 9th Oct. 2023, related to the davit accumulators for the FRC) • CC 73 (Ext. due date 19th Dec. 2023, related to the auxiliary boilers)	closed. Send updated Helideck certificate
	Status on recent or upcoming modifications (mooring lines, other?)	All eight anchor wires were replaced before the Norma well for DNO.	N/A
	d. Any 3rd party service inspections done recently? Please provide overview.	April: Annual inspection of elevators Annual inspection lifeboats May: Annual inspection lifting equipment June: OVID inspection July: Annual DNV survey, annual DP/FMEA trail, annual fire & gas inspections August: Drops, annual inspection loose drilling & lifting equipment,	Odfjell to send DROPS inspection from Axess.

Main Topic	Description	Answer/Comment /Notes	Follow-up
		annual EX inspection, September: Annual inspection PSV's and critical drilling instrumentation	
	e. Any identified repair, overhaul or replacements planned prior to and/or subsequent to the upcoming operations?	Odfjell informed that two diesel generators are planned to have maintenance as soon as possible. This is a very time-consuming job and requires approx. 14 days per engine. In addition, Bonnets, sbop and pod will be replaced - completed	Odfjell to inform RIT on timing for startup of maintenance on diesel generators in due time.
	f. Please provide a list of drilling and well related equipment installed and identified as temporary equipment	Slop treatment unit Mud logging unit FLAIR equipment	N/A
	g. Critical spares list	Critical Spares List provided	N/A
	h. When is next ESD test planned?	Next annual ESD test is planned in July 2024	N/A
10. Well control	a. Status on WC equipment?	Valid CoC and DNV certificates on all WCE. No outstanding maintenance on WCE. All logged in IFS maintenance system. There are no	N/A
	b. Any modifications planned	No.	N/A

Main Topic	Description	Answer/Comment /Notes	Follow-up
	on BOP?	Last modification was installation of HPHT sensor, finished in January 2023.	
11. Marine	a. POSMOOR ATA (Description of ATA system. Any known issues, limitations or problems with the system?	No issues other than wear and tear on anchor wires which were all replaced prior to Norma operation.	N/A
	b. How does the operational manual describe and prepare for "severe weather" conditions?	Described in: L3-MODU-ALL-MO-PR-004 ADVERSE WEATHER GUIDELINES Marine Operations Manual - L4-MODU-DSY-E-MA-302 Design Criteria and Operational Limitations A discussion around water depth, mooring lines and cargo handling from vessels was held, but it was agreed that this was not a big issue due to the water depth on Tomcat.	N/A
12. Cranes and lifting	a. Status on Synergi related to lifting coach visit?	Status was presented and there is no outstanding observation. In addition, a separate verification on cranes and lifting will be performed prior to PUN operation on Tomcat. This would be performed by the cranes and lifting responsible in Vår Energi and PUN will have access to this information.	Findings from the Cranes and lifting verification to be followed up.
	Any changes to Material handling plan?	Last updated 01.06.2023	N/A