Notifiable incident

Notification ID	NTF11832
Duty holder	Woodside Energy Ltd
Facility/Activity	Vincent
Nearest state	WA
Incident	OHS-DSCE-Faulty O2 Sensor in Pump Room

Basic information provided at time of notification	
Notification type	Incident
Incident date	04/10/2022 10:00 AM (AWST)
Notification date	25/10/2022 11:20 AM (AWST)
NOPSEMA response date	(AWST)
Received by	[redacted]

Summary of information provided	
Brief descriptive title	OHS-DSCE-Faulty O2 Sensor in Pump Room
Incident location	
Subtype/s	
Summary *(provided at notification)*	3-day report received in submission mailbox 3 weeks after the incident occurred

Request permission to disturb the site	
Permission given	Not Applicable
Permission given by	
Permission given on	

Initial spill and release amounts	
Gas (kg)	
Liquid (L)	
Release type	
More information	

Details of person providing information to NOPSEMA	
Full name	[redacted]
Job title	[redacted]

Initial notification category	
Initial category type *(based on notification)*	Dangerous Occurrence
Initial category *(based on notification)*	OHS - damage to safety-critical equipment

Running sheet
There are no running sheet entries for this notification

Decision	
Escalate to level 1	Yes
Inspector	[redacted]
Escalated on	01/11/2022 07:35

Final notification category	
Final category type *(based on final report)*	Dangerous Occurrence
Final category *(based on final report)*	OHS - damage to safety-critical equipment

Immediate causes	
Details	O2 failure discovered during 1M testing. The work order did not identify the 02 detector as SCE hence the issue was not reported as a failure of performance standard F01. Issues with beacons identified during EEHA inspection rounds.

Initial report	
Due date	07/10/2022
Received date	04/10/2022
Reviewed date	08/11/2022
Reviewed by	[redacted]

Additional details provided by duty holder	Brief description of incident: The fixed oxygen sensor in the pump room is currently not operational, resulting in non-continuous monitoring of oxygen levels in the pump room. The pump room local visual and audible alarm beacons, located at the top and bottom of the pump room have been identified as not currently operational. Work or activity being undertaken at time of incident Undertaking Woodside internal vessel disconnection exercise. What are the Internal Investigation Arrangements: Internal investigation in accordance with Woodside “Health Safety and Environment Event Reporting, Investigating and Learning Procedure" Action taken to make the work-site safe Action taken: Operational Risk Assessment conducted to manage risk. Remote 02 monitoring set up using Draeger X Zone gas detectors at the bottom of pump room. Continuous [redacted] and H2S monitoring remains operable. All personnel are required to carry portable gas monitoring equipment when entering the Pump Room. No planned activities within the Pump Room involve breaking containment. Routine visual watchkeeping (non-continuous measurement) when personnel performing inspections in this controlled area whereby radio in/out communications required. Oil mist detection fitted to the 3 x cargo oil pumps. Ventilation fans are currently in continuous use whereby gas detection equipment (IR point gas detection) is fitted to the inlets and exhausts. Details of any disturbance of the work site Inspection, testing and fault finding. Was an emergency response initiated? No Was anyone killed or injured? No Immediate action taken/intended, if any, to prevent recurrence of incident. Action: Remote 02 monitoring set up using Draeger X Zone gas detectors at the bottom of pump room. Responsible party [redacted] Completion date 22-Oct-2022 Actual or Intended Actual Action Fault finding of issues with beacons commenced. Notification raised to procure and replace beacons. Responsible party [redacted] Completion date 23-Oct-2022 Actual or Intended Actual

Final report	
Due date	03/11/2022
Received date	04/11/2022
Reviewed date	08/11/2022
Reviewed by	[redacted]

Additional details provided by duty holder	Full Report Describe investigation in detail, including who conducted the investigation and in accordance with what standard/procedure Investigation completed by [redacted] and [redacted] in accordance with Woodside “Health Safety and Environment Event Reporting, Investigating and Learning Procedure". In the course of monthly testing the oxygen sensor was identified as having failed. The sensor failure resulted in non-continuous monitoring of oxygen levels in the pump room. A Draeger X Zone gas detector was set up at the bottom plates of the pump room to provide continuous monitoring of the atmosphere. This is monitored continuously by the control room through the CCTV. No spares onboard, work order has been created to procure and replace sensor. In the course of conducting hazardous area inspections, technicians identified alarm beacons in the pump room were not maintained to the relevant standards. Further inspection was carried out and it was identified that these beacons are directly triggered from the [redacted] panel. These beacons are part of the original ships monitoring system and have not been included in any previous risk studies for the pump room therefore there was no testing or maintenance program on this equipment. However, oil mist detectors, ventilation gas detectors, accommodation smoke detectors and MAC points will trigger general alarm. When PAGA is triggered, visual and audible beacons installed during the shipyard conversion will be activated. Actions to prevent recurrence of same or similar incident Action Replace O2 sensor in [redacted] panel - WO 2100352902 Responsible party [redacted] Completion date 16-Dec-2022 Actual or Intended Intended Action Replace gas siren/beacon in pump room - WO 2100352196 Responsible party [redacted] Completion date 31-Jan-2023 Actual or Intended Intended Action Review whether ship’s alarms and beacons are controls that should be included in demonstrating that the risks in the pump room are managed to ALARP and modify procedures accordingly. Responsible party [redacted] Completion date 01-Mar-2023 Actual or Intended Intended

Final spill and release amounts	
Gas (kg)	0.00
Liquid (L)	0.00
Release type	
More information	

Root causes	
Code	
Description	Has the investigation been completed? Yes Root cause analysis Root Causes Analysis Factor: EQ5-0 Equipment Tolerable Failure Comments O2 sensor failed and due to be changed out. Root Causes Analysis Factor: HP3-1 Management System - SPAC Needs Improvement Comments Original ships alarms from the [redacted] panel were not properly considered in the cargo pump room alarm demonstration report

All data received	
Date	04/11/2022