

# Notifiable incident

<b>Notification ID</b>	<a href="#">NTF11891</a>
<b>Duty holder</b>	Woodside Energy Ltd
<b>Facility/Activity</b>	CWLH OKHA FPSO
<b>Nearest state</b>	WA
<b>Incident</b>	OHS-DSCE-Alarm on flare header flow meter failed

Basic information provided at time of notification	
<b>Notification type</b>	Incident
<b>Incident date</b>	26/11/2022 09:00 AM (AWST)
<b>Notification date</b>	26/11/2022 11:33 AM (AWST)
<b>NOPSEMA response date</b>	26/11/2022 12:23 PM (AWST)
<b>Received by</b>	[REDACTED]

Summary of information provided	
<b>Brief descriptive title</b>	OHS-DSCE-Alarm on flare header flow meter failed
<b>Incident location</b>	
<b>Subtype/s</b>	Alarm
<b>Summary</b> <i>(provided at notification)</i>	It was identified during planned one yearly maintenance and testing of the low pressure and high-pressure flare header purge flow meters, that the low flow alarm failed to enunciate when tested. This is an assurance maintenance task failure associated with the performance standards. The purge flow to the HP LP headers remains nominal and there is further investigation ongoing to understand and correct the issue. Operators round for the flow meter have been implemented as mitigation. 3-day report to follow

Request permission to disturb the site	
<b>Permission given</b>	Not Applicable
<b>Permission given by</b>	
<b>Permission given on</b>	

Initial spill and release amounts	
<b>Gas (kg)</b>	
<b>Liquid (L)</b>	
<b>Release type</b>	
<b>More information</b>	

Details of person providing information to NOPSEMA	
<b>Full name</b>	[REDACTED]
<b>Job title</b>	[REDACTED]

Initial notification category	
<b>Initial category type</b> <i>(based on notification)</i>	Dangerous Occurrence
<b>Initial category</b> <i>(based on notification)</i>	OHS - damage to safety-critical equipment

Running sheet

There are no running sheet entries for this notification

### Decision

Escalate to level 1	Yes
Inspector	
Escalated on	28/11/2022 09:35

### Final notification category

Final category type <i>(based on final report)</i>	Dangerous Occurrence
Final category <i>(based on final report)</i>	OHS - damage to safety-critical equipment

### Immediate causes

Details	Immediate causes of the incident were not identifiable at the time.
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### Initial report

Due date	29/11/2022
Received date	29/11/2022
Reviewed date	30/11/2022
Reviewed by	
Additional details provided by duty holder	<p>Brief description of incident During low flow testing of the flare header purge flowmeters, two flowmeters failed to reach low flow alarm set point. This is a non-conformance against Okha PS P25.1 assurance activity.</p> <p>Work or activity being undertaken at time of incident Routine maintenance &amp; assurance testing</p> <p>What are the Internal Investigation Arrangements Internal investigation in accordance with the Woodside "Health, Safety and Environment Event Reporting, Investigating and Learning Procedure"</p> <p>Action taken to make the work-site safe Action taken Control room trending of purge flow rate &amp; increased operator rounds &amp; inspection of the flow meters</p> <p>Was an emergency response initiated? No</p> <p>Was anyone killed or injured? No</p> <p>Immediate action taken/intended, if any, to prevent recurrence of incident. Action Investigation/repair plan initiated Responsible party Completion date 26-Nov-2022 Actual or Intended Actual</p>

### Final report

Due date	26/12/2022
Received date	29/11/2022

<b>Reviewed date</b>	30/11/2022
<b>Reviewed by</b>	[REDACTED]
<b>Additional details provided by duty holder</b>	<p>Full Report</p> <p>Describe investigation in detail, including who conducted the investigation and in accordance with what standard/procedure</p> <p>During 1 Yearly low flow testing of HP &amp; LP flare purge flow meters under WO 2200608364, it was identified that flow meters 05FT441203 &amp; 05FT441205 failed to reach their low flow alarm setpoint and annunciate alarm in CCR. This is a non-conformance to Okha's performance standard P25.1 assurance activity only. The key requirement of P25.1 to maintain a minimum purge flow to flare headers was met, as the manual fuel gas valve on each purge line remained open at all times.</p> <p>Failure of the flowmeter to initiate an alarm was reported to [REDACTED] and investigation commenced.</p> <p>Flow meters 05FT441203 &amp; 05FT441205 have now been replaced. Root cause of failures is contaminants from the purge medium (fuel gas) leaving a residue on the flowmeter internals resulting in these components not moving freely within the pipe.</p> <p>This is considered a tolerable failure of the flow meter due to the following.</p> <ul style="list-style-type: none"> <li>- Testing under regular interval maintenance routine, with no history of this fault evident.</li> <li>- Onboard spares are readily available</li> <li>- Under normal operation the flare header is a closed circuit and air ingress into flare header is highly unlikely</li> <li>- Flare stack piping has separate N2 purge with flow meter to prevent air ingress to flare piping and scrubber</li> </ul> <p>Actions to prevent recurrence of same or similar incident</p> <p>Action Remove and replace flow meters. Investigate and diagnose root cause of failure.</p> <p>Responsible party [REDACTED]</p> <p>Completion date 28-Nov-2022</p> <p>Actual or Intended Actual</p>

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

<b>Root causes</b>	
<b>Code</b>	
<b>Description</b>	<p>Has the investigation been completed? Yes</p> <p>Root cause analysis</p> <p>Root Causes Analysis Factor: EQ5-0 Equipment Tolerable Failure</p> <p>Comments Flow meters internals faulty due to contaminants</p>

<b>All data received</b>	
<b>Date</b>	29/11/2022

