

Notifiable incident

Incident ID [5612](#)

Duty holder: INPEX Operations Australia Pty Ltd
Facility/Activity: CPF Ichthys Explorer
Facility type: Other platform with accommodation facilities when drilling/workover facilities are not in commission

Incident details	
Division	Occupational Health and Safety
Notification type	Incident
Incident date	04/10/2018 06:00 AM (WST)
Notification date	05/10/2018 04:11 PM (WST)
NOPSEMA response date	05/10/2018 04:19 PM (WST)
Received by	[REDACTED]
Nearest state	WA
Initial category type <i>(based on notification)</i>	Dangerous Occurrence
Initial category <i>(based on notification)</i>	Damage to safety-critical equipment
3 Day report received	07/10/2018
Final report received	03/11/2018
All required data received	
Final category type <i>(based on final report)</i>	Dangerous Occurrence
Final category <i>(based on final report)</i>	Damage to safety-critical equipment
Brief description	OHS-DSCE-Failure of toxic gas detectors to meet performance standard
Location	Process deck
Subtype/s	Other
Summary <i>(at notification)</i>	Operator advised that during routine calibration checks in the process area, in a group of 23 detectors at least 5 were out of service. This did not meet the performance standard (I-CPF-DC-01) which required no more than 5 detectors to be out of service. The exact number of detectors which were out of service will be included in the initial report. It is intended to re-calibrate all detectors and return them to service by the end of the day (04/10). It is suspected that the detectors were not calibrated correctly which meant they were potentially not in service for 3 months, but this again will be confirmed in the subsequent report.

Details <i>(from final report)</i>	<p>Operator advised that during routine calibration checks in the process area, in a group of 23 detectors at least 5 were out of service. This did not meet the performance standard (I-CPF-DC-01) which required no more than 5 detectors to be out of service. The exact number of detectors which were out of service will be included in the initial report. It is intended to re-calibrate all detectors and return them to service by the end of the day (04/10). It is suspected that the detectors were not calibrated correctly which meant they were potentially not in service for 3 months, but this again will be confirmed in the subsequent report.</p> <p>During routine scheduled maintenance of the gas calibration in toxic gas detectors in the process area, a number of detectors were found to be non-responsive to calibration gas testing. This is being reported as a failure to meet the Fire and Gas system Performance Standard.</p> <p>During the execution of the 3 monthly preventative maintenance to function test Facility Toxic Gas Detectors, the technicians tested multiple detectors with none responding to the challenge gas. The technicians confirmed with the vendor that the detectors needed to be recalibrated. These particular sensors were required to be calibrated twice; once an hour after sensor installation and again after 24 hours. All 23 detectors were subsequently recalibrated and confirmed to be operational per design specification.</p> <p>Detector splash guards have been fitted to prevent/reduce contamination and blockages.</p>
Immediate cause/s	Failed function test. Root cause being investigated.
Root cause/s	
Root cause description	

Duty inspector recommendation	
Date	05/10/2018
Duty inspector	██████████
Recommendation	Do not conduct Major Investigation
Reasoning	Does not meet MI threshold based on information received
Supporting considerations	

Major investigation decision	
Date	05/10/2018
Decision	Do not conduct Major Investigation
Reasoning	Does not meet MI threshold based on information received
Supporting considerations	

Non-major investigation review and recommendation	
Date	08/10/2018
Inspector	██████████
Risk gap	Moderate
Type of standard	Established
Initial strategy	Investigate

Recommended follow up strategy	
Recommended strategy	Investigate
Supporting considerations	<p>INPEX (██████████) advised that during routine calibration checks in the process area, in a group of 23 toxic detectors, at least 5 were out of calibration. This did not meet the performance standard (I-CPF-DC-01) which required no more than 5 detectors to be out of active service. ██████ pointed out that the faults lied with how the toxic gas detectors were calibrated and these have been since re-calibrated. The facility HC has low level toxicity (H2S - 74 PPM in gas stream and possibility of up to 136 ppm (?- typo?) in fuel gas system). The safety case states "H2S and the BTEX components are present in the fuel gas, but at levels below the IDLH and therefore below the impairment criteria". Will review 3D report and check with ██████ to confirm ██████</p> <p>Reviewed the submitted 3D report and confirmed that the notification was related to toxic gas detectors. Discussed with Team Manager and decided to leave the recommendation as is. (i.e. Investigate). 17 Oct 2018 ██████</p>

Non-major investigation decision	
Date	17/10/2018
RoN	
RoN review result	Agree with recommendation
Strategy decision	Investigate
Supporting considerations	Risk gap and strategy agreed

Associated inspection	
Inspection ID	1777