Notifiable incident

Incident ID	**5708**
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	30/11/2018 02:00 PM (WST)
Notification date	30/11/2018 03:15 PM (WST)
NOPSEMA response date	30/11/2018 03:29 PM (WST)
Received by	[redacted]
Nearest state	WA
Initial category type *(based on notification)*	Dangerous Occurrence
Initial category *(based on notification)*	Damage to safety-critical equipment
3 Day report received	03/12/2018
Final report received	30/12/2018
All required data received	30/12/2018
Final category type *(based on final report)*	Dangerous Occurrence
Final category *(based on final report)*	Damage to safety-critical equipment
Brief description	OHS-DSCE-Toxic gas detector calibration issue
Location	Process deck
Subtype/s	Other
Summary *(at notification)*	Operator advised that during routine calibration of toxic gas detectors in process area 23 detectors were found to be non responsive to calibration gas. This is a breach of the performance standard for the fire and gas system. The matter is being investigated further. Operations have not been affected.

Details *(from final report)*	Operator advised that during routine calibration of toxic gas detectors in process area23 detectors were found to be non responsive to calibration gas. This is a breach of the performance standard for the fire and gas system. The matter is being investigated further. Operations have not been affected. During routine scheduled maintenance gas calibration of toxic gas detection in the process area, a number of detectors where 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. Investigation conducted by [redacted] (Operations HSE Advisor) in accordance with the INPEX Event Reporting and Investigation Procedure. Precise cause of detector failure has not been determined. Following this incident all 23 detectors were function tested but all failed and would not calibrate. This calibration failure follows a similar, previously reported incident on 04/10/18, where a number of these toxic gas detectors failed to calibrate at that time. (Note that the maintenance testing on 27/11/2018 was an action arising from the investigation into the failures on 04/10/18). A study of the composition of CPF streams and subsequent H2S risks has determined that no fixed H2S detection is required on the CPF and that the flammable gas detection system will provide suitable detection of a loss of containment that has any potential to cause harm. It is noted that the H2S detectors are a different type to the normal hydrocarbon gas detectors, which have not been affected with the same failure mode. Action: Confirm whether the toxic gas detection system on CPF has a safety critical function. If not, raise an MOC to evaluate removal of toxic gas detectors, including all associated equipment and management system impacts.
Immediate cause/s	Failed function test of toxic gas detectors.
Root cause/s	None Identified
Root cause description	Precise cause of detector failure has not been determined.

Duty inspector recommendation	
Date	03/12/2018
Duty inspector	[redacted]
Recommendation	Do not conduct Major Investigation
Reasoning	Does not meet MI threshold based on information received
Supporting considerations	

Major investigation decision	
Date	03/12/2018
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	11/12/2018
Inspector	[redacted]
Risk gap	None
Type of standard	Established
Initial strategy	Inclusion in annual stats/data analysis

Recommended follow up strategy	
Recommended strategy	Investigate
Supporting considerations	Part 2 - section 6.4.3 states that the H2S concentration in early filed life as 74 PPMV and 68 PPMV for later field life. Based on industry publication, these level of concentration is not likely to be safety risk (the established benchmark is 100 PPMV with exposure in excess of 48 hrs). Toxic gas detector is stated as a control for MHH (Major Health Hazard) . However, previous notification5612 is related to toxic gas detectors and was recommended for inspection follow up. This is a repeated issue to be followed up in Jan 2019 planned inspection. [redacted]

Non-major investigation decision	
Date	11/12/2018
RoN	[redacted]
RoN review result	Agree with recommendation
Strategy decision	Investigate
Supporting considerations	

Associated inspection	
Inspection ID	1777