

Notifiable incident


Incident ID [5510](#)

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	26/07/2018 12:00 AM (WST)
Notification date	26/07/2018 02:39 PM (WST)
NOPSEMA response date	26/07/2018 03:37 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	29/07/2018
Final report received	14/08/2018
All required data received	14/08/2018
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-Water Mist System not meeting performance standard
Location	
Subtype/s	Facility integrity
Summary <i>(at notification)</i>	<p>Operator advised that during routing maintenance of water mist system, the remote activation solenoids in some areas did not operate.</p> <p>The affected areas are:</p> <ul style="list-style-type: none">- HPU Room column 1 and 4- Paint Store- Meg pump in column 2- Fire water pump C <p>NOPSEMA was previously advised of issues with the water mist system for the HPU room in column 1 and the paint store on 20 and 22 of July 2018.</p> <p>Manual activation is available for the water mist system for all the areas above and all other systems are working as per design.</p> <p>[REDACTED] tried to call the OIM on two occasions to acknowledge receipt of the notification and to gather additional information but could not get through to him.</p>

Details <i>(from final report)</i>	<p>Operator advised that during routing maintenance of water mist system, the remote activation solenoids in some areas did not operate.</p> <p>The affected areas are:</p> <ul style="list-style-type: none"> - HPU Room column 1 and 4 - Paint Store - Meg pump in column 2 - Fire water pump C <p>NOPSEMA was previously advised of issues with the water mist system for the HPU room in column 1 and the paint store on 20 and 22 of July 2018.</p> <p>Manual activation is available for the water mist system for all the areas above and all other systems are working as per design.</p> <p>Cronin tried to call the OIM on two occasions to acknowledge receipt of the notification and to gather additional information but could not get through to him.</p> <p>During routine maintenance function checks on the water mist systems across the CPF, a number of the remote activation solenoids were identified as being faulty. The system is currently only able to be released manually from the local control panel. This situation prevents the system from meeting the Active Fire Protection Performance Standard relating to automatic operation from the Fire & Gas system. (*) manual activation associated HPU Col 1 and Paint Store were previously advised to NOPSEMA via Dangerous Occurrence Notice on 20 and 22 July respectively. It is noted that the all other water mist systems including EDGs, MPGs and remaining Firewater Pumps are functional in accordance with the performance standard.</p>
Immediate cause/s	Solenoid Failure
Root cause/s	ED - EQUIPMENT / PARTS DEFECT - Manufacturing
Root cause description	O-ring damage due to manufacturing/design issue. Moisture ingress caused corrosion and damage to internal components and Minor debris within water mist tubing.


Duty inspector recommendation

Date	27/07/2018
Duty inspector	
Recommendation	Do not conduct Major Investigation
Reasoning	Does not meet MI threshold based on information received
Supporting considerations	

Major investigation decision

Date	27/07/2018
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	30/07/2018
Inspector	
Risk gap	Moderate
Type of standard	Established
Initial strategy	Investigate

Recommended follow up strategy	
Recommended strategy	Investigate
Supporting considerations	<p>Issues with water mist systems on CPF was previously communicated by INPEX on 25/7/2018 . (See file note A 622241).</p> <p>on 30/7/2018; [REDACTED] (INPEX) states:</p> <p>At the time of the notification on Thursday, the water mist systems for the affected areas (as listed in your mail) were in local manual mode, operable from the water mist skid. Deviations with risk assessment and TOP were in place for all affected areas.</p> <p>Over the past few days they have been repairing the systems, and as of yesterday the Facility confirmed that they have reinstated the automatic capability in most spaces. The two remaining in local manual mode are Q02 MEG pump and the Paint Store. All of the 19 other water mist systems are available in accordance with the performance standard. Also of note, as part of the risk assessment for the paint store they have removed all hazardous substances in the paint store to remove the fire hazard from that space.</p> <p>The water mist systems design and future inspection / CFT testing will be followed up in PI 1776 in Sept 2018. [REDACTED]</p> <p>INPEX has previously reported design issues with solenoid valves of water mist system and solenoid valves failure to re-seat after CFTs (past notification) & they have since checked all 19 water mist systems on CPF.</p> <p>On 31 July 18 - INPEX ([REDACTED]) emailed that all water mist systems were re-instated to meet PS i.e. normal ops / auto mode per PS's requirements. (See A623241) [REDACTED]</p>

Non-major investigation decision	
Date	01/08/2018
RoN	[REDACTED]
RoN review result	Agree with recommendation
Strategy decision	Investigate
Supporting considerations	

Associated inspection	
Inspection ID	1776