

# Notifiable incident

**Incident ID** [4979](#)

**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	
<b>Division</b>	Occupational Health and Safety
<b>Notification type</b>	Incident
<b>Incident date</b>	30/06/2017 02:02 PM (WST)
<b>Notification date</b>	30/06/2017 02:02 PM (WST)
<b>NOPSEMA response date</b>	30/06/2017 02:10 PM (WST)
<b>Received by</b>	
<b>Nearest state</b>	WA
<b>Initial category type</b> <i>(based on notification)</i>	Dangerous Occurrence
<b>Initial category</b> <i>(based on notification)</i>	Damage to safety-critical equipment
<b>3 Day report received</b>	03/07/2017
<b>Final report received</b>	30/07/2017
<b>All required data received</b>	31/07/2017
<b>Final category type</b> <i>(based on final report)</i>	Dangerous Occurrence
<b>Final category</b> <i>(based on final report)</i>	Damage to safety-critical equipment
<b>Brief description</b>	OHS - DO Heat detectors out of service
<b>Location</b>	Process deck
<b>Subtype/s</b>	Electrical
<b>Summary</b> <i>(at notification)</i>	The heat detectors in the emergency generator modules are activating whenever the machinery is operated, which is an engineering fault associated with the new facility. A decision has been taken to override these, in accordance with the Management of Change system, while a solution is found. The area is also fitted with flame detectors, and a temporary operating procedure has been developed.
<b>Details</b> <i>(from final report)</i>	The reportable event is a deviation from fire and gas system performance standard. The heat detectors in the Emergency Diesel Generator (EDG) Rooms (A/B) have been overridden, due to the detectors activating during normal operation of the generators. It is noted that the activation was observed during facility tow from Korea to the Ichthys Field. The overrides have been applied in accordance with the management of change process. A temporary operating procedure has been developed for each generator, to address the additional controls that have been put in place. It is noted that there is still detection and protection to the rooms from the flame detectors and water mist system. There is work ongoing to develop an engineering solution to the issue. The performance standard deviation was approved as per the MOC process. The Engineering team are investigating an engineering solution to the problem.
<b>Immediate cause/s</b>	The heat detectors activate during the normal operation of the generators.
<b>Root cause/s</b>	ED - DESIGN - Design specs - problem not anticipated
<b>Root cause description</b>	Heat Stratification in the Emergency Diesel Generator Room causes high temperature layers to occur near the ceiling where the heat detectors are located.

Duty inspector recommendation	
Date	30/06/2017
Duty inspector	
Recommendation	Do not conduct Major Investigation
Reasoning	Does not meet MI threshold based on information received
Supporting considerations	

Major investigation decision	
Date	03/07/2017
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	04/07/2017
Inspector	
Risk gap	None
Type of standard	Established
Initial strategy	Inclusion in annual stats/data analysis

Recommended follow up strategy	
Recommended strategy	Inclusion in annual report stats / data analysis
Supporting considerations	Consequence - a serious injury to an individual arising directly from failure of the heat detectors is not credible, i.e. a serious injury could credibly result from a generator or switchboard fire when the IP is in close proximity - this proximity and outcome will not be modified by the presence or not of heat detectors. However, to be conservative assume a significant injury is credible. Benchmark likelihood - remote, potential likelihood - remote. General responsible party factors are unknown.

Non-major investigation decision	
Date	04/07/2017
RoN	
RoN review result	Agree with recommendation
Strategy decision	Inclusion in annual report stats / data analysis
Supporting considerations	Agree with recommendation on the basis that the operator has noted other fire detection and suppression measures are in place and an engineered solution is being developed to replace the suspect detectors.

Associated inspection	
Inspection ID	