

Notifiable incident

Incident ID [5167](#)

Duty holder: INPEX Operations Australia Pty Ltd
Facility/Activity: Ichthys Venturer
Facility type: Floating production storage and offloading facility

Incident details	
Division	Occupational Health and Safety
Notification type	Incident
Incident date	01/12/2017 10:20 PM (WST)
Notification date	02/12/2017 11:41 PM (WST)
NOPSEMA response date	02/12/2017 08:42 AM (WST)
Received by	[REDACTED]
Nearest state	WA
Initial category type <i>(based on notification)</i>	Dangerous Occurrence
Initial category <i>(based on notification)</i>	Unplanned event - implement emergency response plan
3 Day report received	04/12/2017
Final report received	14/12/2017
All required data received	14/12/2017
Final category type <i>(based on final report)</i>	Dangerous Occurrence
Final category <i>(based on final report)</i>	Unplanned event - implement emergency response plan
Brief description	OHS-UPE-Fire Alarm Activation – Fire Water Generator
Location	Process deck
Subtype/s	Alarm, Emergency response, Muster
Summary <i>(at notification)</i>	<p>Operator advised that a GA and Muster was initiated by the activation of a fire alarm in the Fire Water Generator A compartment.</p> <p>All crew mustered and the ERT was deployed. No indication of smoke or fire. It is assumed as a false alarm but further investigation will be undertaken.</p> <p>All crew stood down and facility returned to normal operations.</p>

Details <i>(from final report)</i>	<p>Operator advised that a GA and Muster was initiated by the activation of a fire alarm in the Fire Water Generator A compartment.</p> <p>All crew mustered and the ERT was deployed. No indication of smoke or fire. It is assumed as a false alarm but further investigation will be undertaken.</p> <p>All crew stood down and facility returned to normal operations.</p> <p>At 22:20 hrs the facility experienced an unplanned alarm resulting in a POB muster. All FPSO POB mustered and accounted for at 2232 hrs. The initiator was a confirmed fire from Fire Water Generator A Room, local panel (HIMA) ICCS Tag S833SDF921A. This was a false alarm. It was confirmed there was no fire or smoke in Fire Water Generator A Room and no impact to Facility/ Personnel/Environment. Additionally ERT were mobilised to investigate smoke alarm in cabin 301, which had gone into fault earlier in the evening to reconfirm this alarm was in fault prior to resetting the Fire and Gas alarms. The facility returned to normal status at 2252 hrs.</p> <p>During the investigation it was found that the surface temperature of the HiMatrix controller was 55 degrees C, therefore the CPU would be operating at a much higher temperature. Design calculations state that the maximum ambient temp within the cabinet would not exceed 51 degrees C. However, the evidence shows that actual temperature exceeded design calculations and the design criteria. When the CPU temperature reaches 70 degrees C it puts the controllers into a 'stressed' state this caused an alarm which caused a "confirmed fire" event and facility muster.</p>
Immediate cause/s	Alarm activation - Input signal interruption from Fire Water Gen A local panel (HIMA) to Fire and Gas system initiated GPA.
Root cause/s	ED - DESIGN - Design specs - problem not anticipated
Root cause description	High temperature in the Hi Matrix controller. Local heating / poor heat conduction.

Duty inspector recommendation

Date	04/12/2017
Duty inspector	██████████
Recommendation	Do not conduct Major Investigation
Reasoning	Does not meet MI threshold based on information received
Supporting considerations	

Major investigation decision

Date	04/12/2017
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	05/12/2017
Inspector	██████████
Risk gap	None
Type of standard	N/A
Initial strategy	Inclusion in annual stats/data analysis

Recommended follow up strategy

Recommended strategy	Inclusion in annual report stats / data analysis
Supporting considerations	<p>The incident was triggered by fire alarm in FW generator room and subsequent investigation by ERT confirmed no fire nor smoke in the room. This is a spurious alarm due to faults. ██████████</p> <p>Final report indicates design faults associated with HIMA cabinets which requires cooling to dissipate heat. Heat built with in the control cabinet caused HiMatrix controller to alarm. ██████████</p> <p>The facility has previously muster due to spurious alarm.</p>

Non-major investigation decision	
Date	06/12/2017
RoN	[REDACTED]
RoN review result	Agree with recommendation
Strategy decision	Inclusion in annual report stats / data analysis
Supporting considerations	

Associated inspection	
Inspection ID	