

Notifiable incident

Incident ID [5237](#)

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	23/01/2018 06:39 PM (WST)
Notification date	23/01/2018 10:22 PM (WST)
NOPSEMA response date	24/01/2018 07:14 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	25/01/2018
Final report received	30/01/2018
All required data received	30/01/2018
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 in fire pump C compartment
Location	Deck
Subtype/s	Alarm, Emergency response, Muster
Summary <i>(at notification)</i>	<p>Operator advised that an indication of fire was identified in the fire pump C compartment. This initiated a GA, Muster and ESD1.</p> <p>Emergency generator and fire pumps started. ERT deployed. No fire detected.</p> <p>Fault later traced to card fault on local F&G panel in fire pump compartment.</p> <p>Muster stood down at 1914hrs and operations restored. No HC's onboard due to hook up and commissioning activities.</p>

Details <i>(from final report)</i>	<p>Operator advised that an indication of fire was identified in the fire pump C compartment. This initiated a GA, Muster and ESD1.</p> <p>Emergency generator and fire pumps started. ERT deployed. No fire detected.</p> <p>Fault later traced to card fault on local F&G panel in fire pump compartment.</p> <p>Muster stood down at 19:14 hours and operations restored. No HC's onboard due to hook up and commissioning activities.</p> <p>At 18:39 a General Alarm was triggered due to indication of High Gas (S830DXS207 – FU) in Fire Water Generator (FWG) Room C in aft Machinery space. Facility Emergency Shut Down (ESD) 1 in non-hazardous areas (S820SD102). FPSO Venturer and accommodation support vessel Jascon 25 facilities mustered, all persons were accounted for. ERT mobilised to investigate and found no indication of fire. Muster on FPSO stood down at 19:14 hours. Main power generators started at 20:40 hours. Facility returned to normal status and an investigation commenced.</p> <p>Presently FWP C is out of service, under an ISSOW long term isolation. The cause of the ESD1 was indicated gas inside FWP C room. This ESD1 executive action was caused by the HIMATRIX HIMA PLC receiving low volts. The 24vdc supply that supplies the PLC (either from external source, or FWP Generator) was measured at 17.5vdc, causing all outputs to a 0 safe state (trip). At the CPU cabinet of the FWP C, the RPE found that the 690vac was not present. At SWR5 +A10EA01 S-790-EC-001-C (Fire Water Pump C control panel breaker) there was a trip indication on its module. This was probably caused by a previous ESD1 signal some time ago, which was not reset. This breaker is an auto re-close, so unable to explain as to why it was in a tripped condition. This was investigated and confirmed with the ABB vendor. For an auto re-close, the breaker has to be in a soft local mode, which it was as per ABB MNSIS HMI. Once voltage was restored, the battery chargers restarted charging the batteries. Cycled power on HIMATRIX HIMA PLC, program restarted. Earlier short term corrective actions have been closed out (applying MOS and troubleshooting Generator C UCP electrical supply).</p>
Immediate cause/s	High Gas Alarm indications in Fire Water Generator pump “C” room. HIMA card went into fault.
Root cause/s	ED - TOLERABLE FAILURE
Root cause description	Possible loss of external power supply to battery chargers. FWP C is out of service and battery chargers were not being charged by external source or FWP generator supply (* note there is a changeover switch from generator supply to external supply). The 24vdc supply that supplies the PLC (either from external source, or FWP Generator) was measured at 17.5vdc, causing all outputs to a 0 safe state (trip). Further the 690vac supply was not present at the CPU cabinet. Trip indication on the module in SWR5 +A10EA01 S-790-EC-001-C (Fire Water Pump C Control Panel breaker) owing to potentially a previous ESD 1 signal not reset

Duty inspector recommendation	
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Date	24/01/2018
Duty inspector	[REDACTED]
Recommendation	Do not conduct Major Investigation
Reasoning	Does not meet MI threshold based on information received
Supporting considerations	

Major investigation decision	
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Date	24/01/2018
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	24/01/2018
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	<p>The notification includes confirmation of false fire alarm from defective card. The facility has been mustered in the past due to other false alarm. The facility is still in commissioning phase and a number of system glitches ,equipment faults and tuning / adjustments will be progressive resolved over the period. ██████████</p> <p>Reviewed final report - The Fire Water Pump C control panel breaker was found not re-set from last trip. Stated corrective action is to ensure breakers' (re-set) checks of all FWPs in the updated post recovery ESD 1 recovery procedure.</p> <p>Additional note:- FWP C is out of service, under an ISSOW long term isolation. The cause of the ESD1 was indicated gas inside FWP C room. This ESD1 executive action was caused by the HIMATRIX HIMA PLC receiving low volts. The cause of the problem pointing to control panel breaker not re-set from previous trip. Corrective action is to update breakers' checks of all FWPs to the post recovery ESD 1 recovery procedure. ██████████</p> <p>It should be noted that the facility has 2x100% FW coverage. There are 4 FW pumps. Outage of 1 FW pump has not compromised AFP coverage & PS not deviated. The FWP C outage was diesel driver damage due to restricted cooling water flow caused by dislodged sight glass flapper. ██████████</p>

Non-major investigation decision

Date	29/01/2018
RoN	██████████
RoN review result	Agree with recommendation
Strategy decision	Inclusion in annual report stats / data analysis
Supporting considerations	

Associated inspection

Inspection ID	
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