

Notifiable incident

Incident ID [5542](#)

Duty holder: Shell Australia Pty Ltd
Facility/Activity: Prelude FLNG
Facility type: Floating liquefied natural gas facility

Incident details	
Division	Occupational Health and Safety
Notification type	Incident
Incident date	24/08/2018 08:55 PM (WST)
Notification date	25/08/2018 07:49 AM (WST)
NOPSEMA response date	25/08/2018 08:44 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	29/08/2018
Final report received	29/08/2018
All required data received	29/08/2018
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-General Alarm and Muster
Location	Process deck
Subtype/s	Alarm, Muster
Summary <i>(at notification)</i>	Operator advised that issues with two LOS gas detectors in the 3T module caused a GA and Muster. One detector head had a fault while the other was intermittently alarming on low gas. The ERT was deployed and no gas was detected in the area. All crew stood down. Further investigation is taking place to determine the issues with the detectors.
Details <i>(from final report)</i>	Operator advised that issues with two LOS gas detectors in the 3T module caused a GA and Muster. One detector head had a fault while the other was intermittently alarming on low gas. The ERT was deployed and no gas was detected in the area. All crew stood down. Further investigation is taking place to determine the issues with the detectors.
Immediate cause/s	Review of F&G Logic revealed that 1. On the 18/8/2018, 1 x LOS GDT went in fault (but was not put in MOS), this degraded the F&G voting from 2oo12 to 1oo12. 2. Then on 24/08/2018 at 2055 2nd LOS GDT identified a fleeting low gas (fleeting signal) – which was erroneous detection which then initiated the GA The F&G logic worked as per design.
Root cause/s	Not Applicable
Root cause description	False alarm - F&G logic worked as per design

Duty inspector recommendation	
Date	27/08/2018
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	27/08/2018
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	27/08/2018
Inspector	[REDACTED]
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	Reported as potentially faulty detectors - no risk gap.

Non-major investigation decision	
Date	27/08/2018
RoN	[REDACTED]
RoN review result	Agree with recommendation
Strategy decision	Inclusion in annual report stats / data analysis
Supporting considerations	

Associated inspection	
Inspection ID	