

# Notifiable incident

**Incident ID** [6172](#)

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

Incident details	
<b>Division</b>	Occupational Health and Safety
<b>Notification type</b>	Incident
<b>Incident date</b>	25/09/2019 07:43 PM (WST)
<b>Notification date</b>	25/09/2019 08:35 PM (WST)
<b>NOPSEMA response date</b>	25/09/2019 10:08 PM (WST)
<b>Received by</b>	[REDACTED]
<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>	Unplanned event - implement emergency response plan
<b>3 Day report received</b>	27/09/2019
<b>Final report received</b>	27/09/2019
<b>All required data received</b>	27/09/2019
<b>Final category type</b> <i>(based on final report)</i>	Dangerous Occurrence
<b>Final category</b> <i>(based on final report)</i>	Unplanned event - implement emergency response plan
<b>Brief description</b>	OHS-UPE-GPA caused by fault in water mist system
<b>Location</b>	Deck
<b>Subtype/s</b>	Facility integrity
<b>Summary</b> <i>(at notification)</i>	<p>Operator advised that a drop in pressure in the main water mist system resulted in the main pumps kicking in and a GPA. No other executive action occurred</p> <p>The facility mustered and an investigation identified a fault with an auxiliary pump which has a reliability issue and will be repaired.</p> <p>The facility returned to normal operational status.</p> <p>[REDACTED] attempted on two occasions to speak to the OIM but could not get through.</p>

<p><b>Details</b> (from final report)</p>	<p>Operator advised that a drop in pressure in the main water mist system resulted in the main pumps kicking in and a GPA. No other executive action occurred</p> <p>The facility mustered and an investigation identified a fault with an auxiliary pump which has a reliability issue and will be repaired.</p> <p>The facility returned to normal operational status.</p> <p><b>** As Supplied by Duty Holder**</b></p> <p>General Alarm was initiated when low pressure reached was in aft water mist system. The aux air driven top up pump failed to maintain pressure in the water mist system. Once low-pressure limit was reached, one of the main water mist system pumps commenced operation. As per cause &amp; effects, the General Alarm is initiated when a main pump starts up.</p> <p>All personnel mustered (6 min) and the fire team was sent to the water mist package to confirm the cause of the GA. Once confirmed, everyone was stood down from muster.</p> <p>Consequence &amp; potential: Facility GA, but no effect to Utilities operations or process operations. No further potential</p> <p>Work or activity being undertaken at time of incident - normal operations</p> <p>What are the internal investigation arrangements? No further investigation as root cause is known - The aux air driven top up pump upon inspection was observed to be exhausting water out the air exhaust port. This pump will be replaced with a new pump.</p> <p>Action taken to make the work-site safe:</p> <ul style="list-style-type: none"> <li>- Manage ER (muster, investigate, stand-down)</li> <li>- Restarted aux pump. Increased the regulated air supply pressure until water mist system pressure could be maintained.</li> </ul> <p>How effective was the emergency response? Muster took place and all persons mustered on Prelude. The muster took 6 min (PS: 25 min,); Fire team readiness to deploy: 9 min (PS: 15 min). The fire team was sent to the water mist package to confirm the cause of the GA, it was confirmed there was no fire or smoke in the Aft Machinery Space.</p> <p>Immediate action taken/intended, if any, to prevent recurrence of incident - Increased the regulated air supply pressure until water mist system pressure could be maintained. Responsible Party - PTL. Completion Date - Closed.</p> <p>What were the immediate causes of the incident? The aux air driven top up pump upon inspection was observed to be exhausting water out the air exhaust port. This pump will be replaced with a new pump.</p> <p>Root cause 1 - Increased the regulated air supply pressure until water mist system pressure could be maintained. This pump will be replaced with a new pump.</p> <p>Full Report - Unless specifically requested, no further report will be submitted.</p> <p>Actions to prevent recurrence of same or similar incident - Order Replacement aux air driven top up pump. Responsible party - MMTL. Completion Date - 15/10/2019.</p>
<p><b>Immediate cause/s</b></p>	<p>tbc</p>
<p><b>Root cause/s</b></p>	
<p><b>Root cause description</b></p>	<p>Root cause 1 - Increased the regulated air supply pressure until water mist system pressure could be maintained. This pump will be replaced with a new pump.</p>

<p><b>Duty inspector recommendation</b></p>	
<p><b>Date</b></p>	<p>26/09/2019</p>
<p><b>Duty inspector</b></p>	<p>██████████</p>
<p><b>Recommendation</b></p>	<p>Do not conduct Major Investigation</p>
<p><b>Reasoning</b></p>	<p>Does not meet MI threshold based on information received</p>
<p><b>Supporting considerations</b></p>	

Major investigation decision	
Date	26/09/2019
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	26/09/2019
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	Auxiliary pump failed, main pumps started as designed - no risk gap.

Non-major investigation decision	
Date	26/09/2019
RoN	
RoN review result	Agree with recommendation
Strategy decision	Inclusion in annual report stats / data analysis
Supporting considerations	

Associated inspection	
Inspection ID	