INTERNAL USE ONLY

Notifiable incident

Incident ID	4530
Duty holder:	Woodside Energy Ltd
Facility/Activity:	OKHA Floating Production Storage and Offloading Facility Operations
Facility type:	Petroleum Activity

Incident details	
Division	Environmental Management
Notification type	Incident
Incident date	08/04/2016 09:20 AM (WST)
Notification date	08/04/2016 11:15 AM (WST)
NOPSEMA response date	08/04/2016 11:15 AM (WST)
Received by	[redacted]
Nearest state	WA
Initial category type *(based on notification)*	Environment Reportable
Initial category *(based on notification)*	EM - hydrocarbon vapour / petroleum liquid release
3 Day report received	11/04/2016
Final report received	11/04/2016
All required data received	11/04/2016
Final category type *(based on final report)*	Environment Reportable
Final category *(based on final report)*	EM - hydrocarbon vapour / petroleum liquid release
Brief description	EM-PL-Subsea Hydrocarbon Leak
Location	Well
Subtype/s	Valve failure
Summary *(at notification)*	Titleholder advised that FPSO currently at anchor near Dampier. Work being conducted by Subsea 7 on turret/riser in preparation for return to field and reconnection. OIM notified that a hydrocarbon leak was identified on the CK4 well. Leak traced to vent on SSSV control module on well head. WEL are currently calculating the volume of gas and liquids but as the FPSO was off location for 60 days this could be the duration of the leak. Initial indications were a leak rate of 175 litres per day. The SSSV has been isolated and the leak stopped. Based on a 60 day duration and a leak rate of 175 litres per day = total of 10,500 litres. WEL currently working on provisional calculations. Following discussion with [redacted] believed that WEL should categorise this event as a dangerous occurrence, reportable environmental incident and a reportable incident in relation to a well.
Details *(from final report)*	THIS INCIDENT IS ALSO AN OHS RELEASE #4529 Marine support vessel Nor Australis reported a leak from the Cossack Manifold during routine ROV subsea risk based inspection works.
Immediate cause/s	Seal Failure
Root cause/s	ED - PREVENTIVE MAINTENANCE - PM NI - PM for equip NI
Root cause description	SSSV Actuator Valve Seal Degradation
Release type	Petroleum fluid

Equipment	Valves/vents
Liquid (L)	10500

Duty inspector recommendation	
Date	08/04/2016
Duty inspector	[redacted]
Recommendation	Do not conduct Major Investigation
Reasoning	
Supporting considerations	Incomplete volume data at present. Once this is confirmed and based on volume, consider escalation to major investigation.

Major investigation decision	
Date	08/04/2016
Decision	Do not conduct Major Investigation
Reasoning	
Supporting considerations	Incomplete volume data at present. Once this is confirmed and based on volume, consider escalation to major investigation.

Non-major investigation review and recommendation	
Date	15/04/2016
Inspector	[redacted]
Risk gap	Moderate
Type of standard	Established
Initial strategy	

Recommended follow up strategy	
Recommended strategy	Investigate within 45 days
Supporting considerations	See filenote which outlines the supporting considerations for this incident A478369.

Non-major investigation decision	
Date	20/04/2016
RoN	[redacted]
RoN review result	Agree with recommendation
Strategy decision	Investigate within 45 days
Supporting considerations	Need to discuss who, how and when of the investigation with WI and FPD teams in the S&I division. As the focus of the concern is a failure to prevent the escape of petroleum the E division will need assistance in the form of expertise on maintaining integrity of the well.

Associated inspection	
Inspection ID	1295

Critical decision/s		
1	**Short description**	The Compliance Committee discussed how best to proceed with this investigation pending the outcomes of Well progress on their notification.
	Issues/options	The CC minutes reflect the issues and options discussed.
	Recommendations	Environment to close out the notification and not follow up further with as the Wells follow up process will cover all issues.

Runsheet entries		
1	**Event date**	12/04/2016 07:56 AM
	Event	Volume needs to be confirmed. Leak volume dependent on how long the pressure (reservoir) takes to build?