

Report of an accident, dangerous occurrence or environmental incident

For instructions and general guidance in the use of this form, please see the last page.

Part 1 is required within 3 days of a notified incident.

Part 2 is required within 30 days of notified incident.

What was the date and time of the initial verbal incident notification to NOPSEMA?			
Date	Monday 28 th November 2016	Time	15:20

NOTE: It is a requirement to request permission to interfere with the site of an accident or dangerous occurrence. Refer OPGGS(S)R, Reg. 2.49.

What is the date and time of this written incident report?			
Date	Thursday 1 st December 2016	Time	15:00

What type of incident is being reported?	Please tick appropriate incident type	
Accident or dangerous occurrence	<input type="checkbox"/>	Complete parts 1A, 1B & part 2
Environmental Incident	<input checked="" type="checkbox"/>	Complete parts 1A, 1C
BOTH (Accident or dangerous occurrence AND environmental incident)	<input type="checkbox"/>	Complete ALL parts (1A, 1B, 1C, 2)

Please tick all applicable (one or more categories)

To use electronically: MS Word 2007-10 – click in check box

Categories <i>Please select one or more</i>	Accidents			
	Dangerous occurrences	Death or Serious injury		<input type="checkbox"/>
		Lost time injury ≥3 days		<input type="checkbox"/>
Hydrocarbon release >1 kg or ≥80 L (gas or liquid)			<input type="checkbox"/>	
Fire or explosion			<input type="checkbox"/>	
Collision marine vessel and facility			<input type="checkbox"/>	
Could have caused death, serious injury or LTI			<input type="checkbox"/>	
Damage to safety-critical equipment			<input type="checkbox"/>	
Unplanned event - implement ERP			<input type="checkbox"/>	
Pipeline incident			<input type="checkbox"/>	
Well kick >50 barrels			<input type="checkbox"/>	
Other _____		<input type="checkbox"/>		
Environmental incidents	Hydrocarbon release		<input checked="" type="checkbox"/>	
	Chemical release		<input type="checkbox"/>	
	Drilling fluid/mud release		<input type="checkbox"/>	
	Fauna Incident		<input type="checkbox"/>	
	Other _____		<input type="checkbox"/>	

Part 1A – Information required within 3 days of an accident, dangerous occurrence or environmental incident

General information – all incidents

1.	Where did the incident occur?	Facility / field / title name	Atwood Osprey / Keast Dockrell / WA-5-L		
		Site name and location <i>Latitude/longitude</i>	KDA01 115° 47' 07.337"E, 19° 45' 28.929"S		
2.	Who is the registered operator/titleholder or other person that controls the works site or activity?	Name	Woodside Energy Ltd		
		Business address	240 St Georges Tce, Perth, WA 6000		
		Business phone no.	9348 4000		
3.	When did the incident occur?	Time and time zone	09:00 Sheen observed, 15:00 Source confirmed (AWST)		
		Date	Monday 28 th November 2016		
4.	Did anyone witness the incident?	Yes or no <i>If yes, provide details below</i>	Yes		
	Witness details	Witness no 1	Witness no 2	Witness no 3	
	Full name	██████████ Atwood Osprey			
	Phone no. (Business hours)	██████████ ██████████			
	Phone no. (Home) (Mobile)	██████████ ██████████			
	Email (Business) (Private)	██████████ ██████████ ██████████			
	Postal address	██████████ ██████████ ██████████ ██████████ ██████████			
	<i>NB: If more witnesses, copy and insert this section (4) here , and add extra witness numbers appropriately</i>				
5.	Details of person submitting this information	Name	██████████		
		Position	██		
		Email	██████████@woodside.com.au		
		Telephone no.	██████████		

Part 1A – Information required within 3 days of an accident, dangerous occurrence or environmental incident

General information – all incidents

6.	Brief description of incident	<p>Whilst performing a planned discharge from the clean drain water tank, a sheen was observed from the port side of the rig.</p> <p>A rig based search was immediately conducted to determine the source of the sheen.</p> <p>Discharge from the clean drain water tank was stopped, and the sheen then stopped increasing.</p> <p>The volume of the spill was calculated using the AMSA oil spill calculator and estimated at 106 litres of hydrocarbons.</p> <p>The clean drain tank water discharge is normally protected by an automatic oil in water sensor that will automatically divert discharge to the oily water separator in event that there is more than 15ppm oil in water.</p> <p>While formal technical investigations are continuing, initial findings indicate that the water sample line that feeds the oil in water content meter for the clean drain water tank had become blocked, resulting in a continuous and non-representative oil in water measurement of less than 15ppm, allowing the automatic process of direct discharge overboard.</p> <p>Initial investigations indicate that water draining from the main decks over 6 years has resulted in a previously unknown collection of residues (including particles of solids) in the bottom of the clean drain water tank, blocking the sample line for the oil in water content meter.</p> <p>The source of the hydrocarbons in the clean drain water tank are, at the time of this report, considered to be a normal accumulation of floating hydrocarbon residue that is collected from all areas of the decks over a period of time. Initial investigations indicate that the blocked oil in water content meter prevented the normal protection system from functioning (protection would have been the automatic bypass via the oil water separator in event of the oil in water content meter reading > 15ppm.)</p>
7.	Work or activity being undertaken at time of incident	Routine drilling activities at KDA01

8.	What are the internal investigation arrangements?	Initial investigations carried out by ██████████ (refer to ██████████ Environmental Incident report attached - Environmental Incident - EI-1611-0001). Formal investigations into the incident are continuing.			
9.	Was there any loss of containment of any fluid (liquid or gas)?	Yes or no <i>If Yes, provide details below</i>	Yes		
Type of fluid (liquid or gas) <i>If hydrocarbon release please complete item no.15 as well</i>		Hydrocarbon Please specify: Contaminated deck drain water Non-hydrocarbon Please specify _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Estimated quantity <i>Liquid (L), Gas (kg)</i>		106L			
Estimation details		Calculation <input checked="" type="checkbox"/>	Measurement <input type="checkbox"/>	Please specify: Estimated using sheen area/appearance method. A combination of rainbow sheen and silver sheen was observed.	
Composition <i>Percentage and description</i>		Accumulated hydrocarbons that have collected in the clean drain water tank.			
Known toxicity to people and/or environment		Toxicity to people		Unknown	
		Toxicity to environment		Unknown	
How was the leak/spill detected?		F&G detection <input type="checkbox"/> CCTV <input type="checkbox"/>	Visual <input checked="" type="checkbox"/> Other <input type="checkbox"/>		
Did ignition occur?		No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>	Immediate <input type="checkbox"/> Delayed <input type="checkbox"/>		
Did ignition occur?		No If yes, what was the likely ignition source	Hotwork <input type="checkbox"/> Spark electrical source <input type="checkbox"/> Spark metallic contact <input type="checkbox"/> Hot surface <input type="checkbox"/> Other <input type="checkbox"/>		
10.	Has the release been stopped and/or contained?	Yes or no	Yes		
Duration of the release <i>hh:mm:ss</i>		Undetermined, however the sheen was observed early and the start of the sheen was clearly identifiable on the ocean surface, allowing accurate application of the AMSA oil spill calculator estimate process.			
Estimated rate of release <i>Litres or kg per hour</i>		Unable to calculate or measure the rate of release as the discharge is by gravity and the discharge would have been a combination of water and hydrocarbon.			
11.	Location of release	What or where is the location of the release?	Discharge valve from the 'clean drain water tank', via overboard discharge line.		

		<p>What equipment was involved in the release?</p>	<p>Clean water drain tank</p> <p>Oil in water content meter (clean drain water tank)</p> <p>Automatic system (contained within the electronic Vessel Management System)</p> <p>Automatic overboard discharge valve, controlled by VMS as determined by oil in water content meter.</p> <p>Gravity discharge (head pressure only)</p>												
		<p>Is this functional location listed as safety-critical equipment?</p>	<p>No</p>												
12.	<p>Weather conditions Please complete as appropriate</p>	<p>Ambient temperature °C</p>	<p>28 degrees</p>												
		<p>Relative humidity %</p>	<p>Not recorded</p>												
		<p>Wind speed m/s <i>NB: for enclosed areas use</i> Air change per hour</p>	<p>8 knots</p>												
		<p>Wind direction e.g. from SW</p>	<p>194 degrees</p>												
		<p>Significant wave height m</p>	<p>1.1m at 12 to 15 seconds (direction 250 degrees)</p>												
		<p>Swell m</p>	<p>0.03m at 16 to 19 seconds (direction 250 degrees)</p>												
		<p>Current speed m/s</p>	<p>Not recorded</p>												
		<p>Current direction e.g. from SW</p>	<p>Not recorded</p>												
13.	<p>Hydrocarbon release details If hydrocarbon fluid (liquid or gas) was released, please complete this section as well</p>	<p>System of hydrocarbon release</p>	<table border="1"> <tr> <td>Process</td> <td><input checked="" type="checkbox"/></td> <td>Utilities</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Drilling</td> <td><input type="checkbox"/></td> <td>Well related</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Subsea / Pipeline</td> <td><input type="checkbox"/></td> <td>Marine</td> <td><input type="checkbox"/></td> </tr> </table>	Process	<input checked="" type="checkbox"/>	Utilities	<input type="checkbox"/>	Drilling	<input type="checkbox"/>	Well related	<input type="checkbox"/>	Subsea / Pipeline	<input type="checkbox"/>	Marine	<input type="checkbox"/>
		Process	<input checked="" type="checkbox"/>	Utilities	<input type="checkbox"/>										
		Drilling	<input type="checkbox"/>	Well related	<input type="checkbox"/>										
		Subsea / Pipeline	<input type="checkbox"/>	Marine	<input type="checkbox"/>										
<p>Estimated inventory in the isolatable system <i>Litres or kg</i></p>	<p>Hydrocarbons released were not part of inventory</p> <p>Hydrocarbons were floating on top of the water contained in the clean drain water tank</p>														
<p>System pressure and size of piping or vessel <i>diameter (d in mm)</i> <i>length (l in m)</i> <i>or volume (V in L)</i></p>	<table border="1"> <tr> <td>Pressure MPag</td> <td>Gravity head pressure, no pumps in system</td> </tr> <tr> <td>Size Piping (d) and Piping (l) or Vessel (V)</td> <td>Clean drain tank total volume 112cubic metres (was not full)</td> </tr> </table>	Pressure MPag	Gravity head pressure, no pumps in system	Size Piping (d) and Piping (l) or Vessel (V)	Clean drain tank total volume 112cubic metres (was not full)										
Pressure MPag	Gravity head pressure, no pumps in system														
Size Piping (d) and Piping (l) or Vessel (V)	Clean drain tank total volume 112cubic metres (was not full)														
<p>Estimated equivalent hole diameter <i>d in mm</i></p>	<p>Not applicable</p>														

Part 1B - Complete for accidents or dangerous occurrences
Accidents and dangerous occurrences information

	Was NOPSEMA notified through the dedicated notification phone line? <i>Phone No. 08 6461 7090</i>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>		
15.	Action taken to make the work-site safe	Was permission given by a NOPSEMA inspector to interfere with the site? OPGGS(S)R 2.49.					
		Yes	<input type="checkbox"/>	No	<input type="checkbox"/>		
		Action taken					
Details of any disturbance of the work site							
16.	Was an emergency response initiated?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>		
	Type of response	Manual Automatic alarm	<input type="checkbox"/> <input type="checkbox"/>	Muster Evacuation	<input type="checkbox"/> <input type="checkbox"/>		
	How effective was the emergency response?						
Was anyone killed or injured? <i>Provide details below</i>		Yes	<input type="checkbox"/>	No	<input type="checkbox"/>		
Injured persons (IP) <i>If different from item 2.</i>		Casualty No 1					
Employer name		Employer address					
Employer phone no.		Employer email					
IP full name							
IP date of birth		Sex		M	<input type="checkbox"/>	F	<input type="checkbox"/>
IP residential address							
IP phone no. (Work)		IP phone no. (Home) (Mobile)					
IP occupation/job title		Contractor or core crew					
Details of injury							
<i>Based on TOOCS (refer last page)</i> Nature of injury		a. Intracranial injury b. Fractures c. Wounds, lacerations, amputations, internal organ damage	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	d. Burn e. Nerve or spinal cord injury f. Joint, ligament, muscle or tendon injury g. Other _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Part of body		G1. Head or face G2. Neck G3. Trunk G4. Shoulder or arm	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	G5. Hip or leg G6. Multiple locations G7. Internal systems G8. Other _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Part 1B - Complete for accidents or dangerous occurrences
Accidents and dangerous occurrences information

	Mechanism of injury	G0. Falls, stepping, kneeling, sitting on object G1. Hitting object G2. Being hit or trapped	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	G3. Exposure to sound or pressure G4. Muscular stress G5. Heat, cold or radiation G6/7 Chemical, biological substance G8. Other _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Agency of injury	1. Machinery or fixed plant 2. Mobile plant or transport 3. Powered equipment 4. Non-power equipment	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	5/6. Chemicals, materials, substances 7. Environmental agencies 8. Human or animal agencies 9. Other _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Details of job being undertaken				
	Day and hour of shift	Day e.g. 5 th day of 7 (5 / 7)		Hour e.g. 3 rd hour of 12 (3 / 12)	
<i>NB: If more casualties, please copy/paste this section (19) for each additional casualty and insert here</i>					
18.	Was there any serious damage? <i>Provide details below</i>		Yes <input type="checkbox"/>	No <input type="checkbox"/>	
	Details	Item 1	Item 2	Item 3	
	Equipment damaged				
	Extent of damage				
19.	Will the equipment be shut down? <i>Yes or No</i>				
	If Yes, for how long?				
<i>NB: If more equipment seriously damaged, please copy/paste this section as required</i>					
20.	Will the facility be shut down?	Yes or no <i>If yes provide details below</i>			
	Facility shutdown	Date		dd/mm/yyyy	
		Time		24 hour clock	
Duration			days / hours / minutes		
21.	Immediate action taken/intended, if any, to prevent recurrence of incident.	Action	Responsible party	Completion date <i>Actual or intended</i>	
22.	What were the immediate causes of the incident?				

Part 1C – Complete for environmental incidents
Environmental Impacts

	Are any environments at risk? <i>Including as a result of spill response measures</i>	Details <i>e.g. zone of potential impact</i>			
		AT RISK ENVIRONMENTS			
		Open ocean <input type="checkbox"/> Shoreline <input type="checkbox"/> Population Centre <input type="checkbox"/> Stakeholders <input type="checkbox"/> Other sensitivity <input type="checkbox"/> <i>e.g. conservation area, nesting beach</i>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Macroalgae <input type="checkbox"/> Coral Reef <input type="checkbox"/> Benthic Invertebrates <input type="checkbox"/> Seagrass <input type="checkbox"/> Mangrove <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Details	Environment 1	Environment 2	Environment 3	
	Estimated location of 'at-risk' environments				
	Estimated impact date & time				
	Action required to minimise exposure				
	Specify each matter protected under Part 3 of the EPBC Act at risk				
<i>NB: If more environments at risk of damage, please copy/paste this section (Item E2) and add extra data</i>					
26.	Was an oil pollution emergency plan activated?	Yes or no	No		
		If yes, what action has been implemented /planned?	Source of spill was immediately identified and isolated. Sheen was no more than rainbow in concentration.		
		If yes, how effective is/was the spill response?			
27.	Was an environmental monitoring program initiated?	Yes or no	No		
		If yes, what actions have been implemented and/or planned?			
28.	Did the incident result in the death or injury of any fauna?	Yes or no (If yes provide details of species in the table below)	No		
	Injured fauna	Species 1	Species 2	Species 3	
	Species name (common or scientific name)				
	Number of individuals killed or injured	Killed: Injured:	Killed: Injured:	Killed: Injured:	
<i>NB: If more species were injured or killed, please copy/paste this section (Item E4) and add extra data</i>					

29.	Actions taken to avoid or mitigate any adverse environmental impacts of the incident.	Action	Responsible party	Completion date <i>Actual or intended</i>
		Detect source of the spill	[REDACTED]	28/11/2016 Complete
		Cease draining the 'clean drain water tank'	[REDACTED]	28/11/2016 Complete
<i>NB: If more actions, please add extra rows as required</i>				
30.	Corrective actions taken, or proposed, to stop, control or remedy the incident.	Action	Responsible party	Completion date <i>Actual or intended</i>
		Sensor feed tube for the oil in water content meter on the discharge pipe of the 'clean drain water tank' was unblocked and function restored	[REDACTED]	28/11/2016 Complete
<i>NB: If more actions, please add extra rows as required</i>				
31.	Actions taken, or proposed, to prevent a similar incident occurring in the future.	Action	Responsible party	Completion date <i>Actual or intended</i>
		Complete further investigation, identify and implement long term corrective measures to ensure blockage of the oil in water content meter sample line does not occur again	[REDACTED]	15 December 2016
<i>NB: If more actions, please add extra rows as required</i>				

Attachments

Are you attaching any documents?		Yes or no <i>If yes provide details below</i>		Yes
No.	ID	Revision	Date	Title/Description
1	Environmental Incident - EI-1611-0001	NA	30/11/2016	[REDACTED] Environmental Incident Report

Insert or delete rows as required

Part 2 – Information required within 30 days of accident or dangerous occurrence

NOPSEMA acknowledges that in many circumstances an operator may not have completed an investigation within 3 days of an accident or first detection of a dangerous occurrence and agrees that these items must be provided within 30 days unless otherwise agreed, in writing with NOPSEMA. In circumstances where an investigation has been completed within 3 days, and these items are available (supplemented, as required by any attachments) this part should also be completed at that time.

32.	Has the investigation been completed?	Yes or no		
	Root cause analysis <i>What were the root causes?</i>	Root cause 1		
		Root cause 2		
		Root cause 3		
	Other root causes			
	Full report <i>Describe investigation in detail, including who conducted the investigation and in accordance with what standard/procedure with reference to attachments listed in the 'attachments table' (following) as applicable</i>			
33.	Actions to prevent recurrence of same or similar incident	Action	Responsible party	Completion date <i>Actual or intended</i>
<i>NB: Add or delete rows as appropriate</i>				

Attachments (Insert/delete rows as required)

Are you attaching any documents?		Yes or no		
		<i>If yes provide details below</i>		
No.	ID	Revision	Date	Title/description

Instructions and general guidance for use:

1. The use of this form is voluntary and is provided to assist operators and titleholders to comply with their obligations to give notice and provide reports of incidents to NOPSEMA under the applicable legislation.
2. Accidents, dangerous occurrences or environmental incidents can all be reported using this same form.
3. The applicable legislation for incident reporting is:
 - a. Offshore Petroleum and Greenhouse Gas Storage (Safety) Regulations 2009 [OPGGS(S)R]; and
 - b. Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 [OPGGS(E)R], for facilities located in Commonwealth waters; or
 - c. for facilities located in designated coastal waters, the relevant State or Territory Act and associated Regulations where there is a current conferral of powers to NOPSEMA.
4. In the context of this form an incident is a reportable incident as defined under:
 - a. OPGGSA, Schedule 3, Clause 82.
 - b. OPGGS(E)R, regulation 4.
5. This form should be used in conjunction with NOPSEMA Guidance Notes available on the NOPSEMA website:
 - a. N-03000-GN0099 Notification and Reporting of Accidents and Dangerous Occurrences
 - b. N-03000-GN0926 Notification and Reporting of Environmental Incidents
6. Part 1 requires completion for all incidents; then ALSO complete part 2 if the incident is an accident or dangerous occurrence.
7. NOPSEMA considers that a full report will contain copies of documentary material referenced and/or relied on in the course of completing this form, which may include (but not be limited to) as appropriate: witness statements, management system documents, drawings, diagrams and photographs, third party reports (audit, inspection, material analysis etc.), internal records and correspondence.
8. This form is intended to be completed electronically using Microsoft Word by completing the unshaded cells which will expand as required to accept the information required and the check boxes where relevant (NB: check boxes may appear shaded and have reduced functionality in MS Word versions prior to 2010).
9. The completed version of this form (and any attachments, where applicable) should be emailed to: submissions@nopsema.gov.au or submitted via secure file transfer at: <https://securefile.nopsema.gov.au/filedrop/submissions> as soon as practicable, but in any case within three days of the incident.

References

NOPSEMA website: www.nopsema.gov.au

TOOCS – Type of Occurrence Classification System.

The *Type of Occurrence Classifications System, Version 3.0* (TOOCS3.0) was developed to improve the quality and consistency of data. This system aligns with the International Classification of Diseases –Australian Modification (ICD10-AM).

[http://www.safeworkaustralia.gov.au/sites/SWA/AboutSafeWorkAustralia/WhatWeDo/Publications/Documents/207/TypeOfOccurrenceClassificationSystem\(TOOCs\)3rdEditionRevision1.pdf](http://www.safeworkaustralia.gov.au/sites/SWA/AboutSafeWorkAustralia/WhatWeDo/Publications/Documents/207/TypeOfOccurrenceClassificationSystem(TOOCs)3rdEditionRevision1.pdf)

OPGGS(S)R. Offshore Petroleum and Greenhouse Gas Storage (Safety) Regulations 2009. Select Legislative Instrument 2009 No. 382 as amended and made under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006*. Commonwealth of Australia.

OPGGS(E)R. Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009. Statutory Rules 1999 No. 228 as amended and made under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006*. Commonwealth of Australia.

Privacy Notice

NOPSEMA collects your personal information for the purpose of investigating accidents, dangerous occurrences and environmental incidents under the Offshore Petroleum and Greenhouse Gas Storage Act 2006.

NOPSEMA will not use or disclose your personal information for any other purpose without your consent, unless it is required or authorised by law, or relates to NOPSEMA's enforcement activities. Your personal information may be disclosed to the following organisations, entities or individuals:

- individuals who make a request under the *Freedom of Information Act 1982*
- the Australian National Audit Office and other privately-appointed auditors
- other law enforcement bodies (for example, the police or the Coroner)
- NOPSEMA's legal advisors.

NOPSEMA may occasionally be required to disclose information to overseas recipients in order to discharge its functions or exercise its powers, or to perform its necessary business activities.

Information about how you can access, or seek correction to, your personal information is contained in NOPSEMA's APP Privacy Policy at www.nopsema.gov.au/privacy. If you have an enquiry or a complaint about your privacy, please contact NOPSEMA's Privacy Contact Officer on (08) 6188 8700 or by email at: privacy@nopsema.gov.au.