Woodside Energy

Okha Light Well Intervention – Oil Pollution First Strike Plan

Corporate HSE

Hydrocarbon Spill Preparedness

October 2026

Revision 0

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CONTROL AGENCIES AND INCIDENT CONTROLLERS

Source	Location	Level	Jurisdictional Authority/ Hazard Management Agency	Control Agency	Incident Controller
Spill from facility including subsea infrastructure Note: pipe laying and accommodation vessels are considered a "facility" under Australian regulations	Commonwealth waters	1	NOPSEMA	Woodside	Person In Charge (PIC) with support from Onshore Team Leader (OTL)
		2/3		Woodside	Corporate Incident Management Team Incident Commander (CIMT IC)
	State waters	1/2/3	Western Australian Department of Transport and Major Infrastructure (DTMI)	DTMI	DTMI Incident Controller
	Within port limits	1	DTMI	Port Authority	Port Harbour Master
		2/3		Port Authority/ DTMI	Port Harbour Master/ DTMI Incident Controller
Spill from vessel Note: SOPEP should be implemented in conjunction with this document	Commonwealth waters	1	Australian Marine Safety Authority (AMSA)	AMSA	Vessel Master
		2/3		AMSA	AMSA (with response assistance from Woodside)
	State waters	1/2/3	DTMI	DTMI	DTMI Incident Controller
	Within port limits	1	DTMI	Port Authority	Port Harbour Master
		2/3		Port Authority/ DTMI	Port Harbour Master/ DTMI Incident Controller

SPILLS IN STATE WATERS

In the event of a hydrocarbon spill (hereafter 'spill') where Woodside Energy Ltd ('Woodside') is the responsible party and the spill may impact State waters and shorelines, Woodside (or the Vessel Master) will commence the initial response actions and notify the Western Australian Department of Transport and Major Infrastructure (DTMI).

Initially Woodside will be required to make available an appropriate number of suitably qualified persons to work in the DTMI IMT (APPENDIX F – Woodside Liaison Officer resources to DTMI). DTMI's role as the Controlling Agency in State waters/ within port limits does not negate the requirement for Woodside to have appropriate plans and resources in place to adequately respond to a marine hydrocarbon spill incident in State Waters/ within port limits or to commence the initial response actions to a spill prior to DTMI establishing incident control in line with DTMI *Offshore Petroleum Industry Guidance Note – Marine Oil Pollution: Response and Consultation Arrangements* (July 2020). Cost recovery arrangements for offshore marine pollution incidents (MOP) are in accordance with Section 9 of the Guidance Note:

https://www.transport.wa.gov.au/mediaFiles/marine/MAC_P_Westplan_MOP_OffshorePetroleumIndGuidance.pdf

Woodside's Incident Management Structure for a hydrocarbon spill, including Woodside Liaison Officer's command structure within DTMI can be seen at APPENDIX E – Woodside Incident Management Structure.

The coordination structure for a concurrent hydrocarbon spill in both Commonwealth and State waters/ shorelines is shown in APPENDIX D – Coordination structure for a concurrent hydrocarbon spill in both Commonwealth and State waters/ shorelines.

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RESPONSE PROCESS OVERVIEW

<table>
<tr><th colspan="3">For guidance on credible scenarios and hydrocarbon characteristics, refer to APPENDIX A</th></tr>
<tr><td rowspan="2">ALL INCIDENTS</td><td colspan="2">Notify the Woodside Communication Centre (WCC) on:
1300 833 333, +61 8 9348 7184 / 4624 or sat phone +881 632 410 392</td></tr>
<tr><td colspan="2">If further support required, Incident Commander or delegate to implement this Oil Pollution First Strike Plan per relevant actions detailed in Table 1-1 and Table 2-1.</td></tr>
<tr><td rowspan="2">LEVEL 1</td><td>FACILITY INCIDENT</td><td>VESSEL INCIDENT</td></tr>
<tr><td>Coordinate pre-identified tactics in Table 2-1 of this Oil Pollution First Strike Plan.
Remember to download each Operational Plan.</td><td>Notify AMSA and coordinate pre-identified tactics in Table 2-1 of this Oil Pollution First Strike Plan
Remember to download each Operational Plan.</td></tr>
<tr><td colspan="3">If the spill escalates such that the site cannot manage the incident, inform the WCC on:
1300 833 333, +61 8 9348 7184/ 4624 or sat phone +881 632 410 392 and escalate to a level 2/3 incident.</td></tr>
<tr><td rowspan="3">LEVEL 2/3</td><td>FACILITY INCIDENT</td><td>VESSEL INCIDENT</td></tr>
<tr><td>Handover control to CIMT and notify DTMI.</td><td>Handover control to AMSA and stand up CIMT to assist.</td></tr>
<tr><td>Commence quick revalidation of the recommended strategies in Table 2-1 taking into consideration seasonal sensitivities and current situational awareness.
Commence validated strategies.</td><td>If requested by AMSA/Port Authority:
Commence quick revalidation of the recommended strategies in Table 2-1 taking into consideration seasonal sensitivities and current situational awareness.
Commence validated strategies.</td></tr>
<tr><td></td><td>Create an Incident Action Plan (IAP) for all ongoing operational periods.
The content of the IAP should reflect the selected response strategies based on current situational awareness.
For the full detailed pre-operational Net Environmental Benefit Analysis (NEBA) see the Oil Spill Preparedness and Response Mitigation Assessment (OSPRMA) Appendix A</td><td>If requested by AMSA:
Create an IAP for all ongoing operational periods.
The content of the IAP should reflect the selected response strategies based on current situational awareness.
For the full detailed pre-operational NEBA see the OSPRMA Appendix A</td></tr>
</table>

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1. NOTIFICATIONS

The Incident Controller or delegate must ensure the below notifications (Table 1-1) are completed within the designated timeframes.

For spills from a vessel, relevant notifications must be undertaken by a Woodside representative.

Table 1-1: Notifications

In the event of an incident between campaign vessels, also activate relevant vessel Emergency Response Plans and/or Bridging Documents

In the event of an incident impacting live well infrastructure, also activate Okha Floating Production Storage and Offloading Facility Operations Oil Pollution First Strike Plan

Timing	By	To	Name	Contact	Instruction	Form	Complete? (✓)
NOTIFICATIONS FOR ALL LEVELS OF SPILL							
Immediately	Offshore Installation Manager (OIM) or Vessel Master	Woodside Communication Centre (WCC)	Corporate Incident Management Team Incident Commander (CIMT IC)	Tel: 1300 833 333 Tel: +61 893 487 184/ 4624 Sat phone: +881 632 410 392	Verbally notify WCC of event and estimated volume and hydrocarbon type. If further support required, implement this Oil Pollution First Strike Plan per relevant actions detailed in Table 1-1 and Table 2-1.	Verbal	
Within 2 hours	Woodside Site Rep (WSR), CIMT IC or Delegate	National Offshore Petroleum Safety Environmental Management Authority (NOPSEMA[1])	Incident notification office	Tel: 1300 674 472	Verbally notify NOPSEMA for spills >80 litres[2]. Record notification using Initial Verbal Notification Form or equivalent and send to NOPSEMA as soon as practicable (cc to NOPTA and DMPE).	Link	
Within 3 days	WSR, CIMT IC or Delegate				Provide a written NOPSEMA Incident Report Form as soon as practicable (no later than 3 days after notification) (cc to NOPTA and DMPE) NOPSEMA submissions@nopsema.gov.au NOPTA resources@nopta.gov.au DMPE petroleum.environment@dmpe.wa.gov.au	NOPSEMA reporting form	
As soon as practicable	CIMT IC or Delegate	Woodside	Environment Unit Leader	As per roster	Verbally notify Environment Unit Leader of event and seek advice on relevant performance standards from EP	Verbal	
Within 2 hours of becoming aware of a marine pollution incident (MOP) that occurs in or may impact state waters	CIMT IC or Delegate	WA Department of Transport and Major Infrastructure (DTMI)	DTMI Maritime Environmental Emergency Response Unit (MEER) Duty Officer	Tel: +61 8 9480 9924	Verbally notify DTMI MEER Duty Officer that a spill has occurred and, if required, request use of equipment stored in Karratha. Follow up with a written Marine Pollution Report (POLREP) as soon as practicable following verbal notification. Additionally, DTMI to be notified if spill is likely to extend into WA State waters. Request DTMI to provide Liaison to Woodside IMT.	DTMI POLREP form	
Within 24 hours of Woodside reporting the incident to the appropriate authority	CIMT IC or Delegate	Department of Primary Industries and Regional Development (DPIRD)			Notification to DPIRD via email within 24 hours of Woodside reporting the incident to the appropriate authority: environment@dpird.wa.gov.au	Email	
Within 24 hours of Woodside reporting the incident to the appropriate authority	CIMT IC or Delegate	WA Fishing Industry Council (WAFIC)	Industry Liaison Officer	Tel: +61 08 9432 7777	Notification to WAFIC via email within 24 hours of Woodside reporting the incident to the appropriate authority: admin@wafic.org.au	Verbal/ email	
As soon as practicable	CIMT IC or Delegate	Department of Climate Change, Energy, the Environment and Water (DCCEEW) Director of National Parks	Marine Park Compliance Duty Officer	Tel: +61 419 293 465	The DNP should be made aware of oil/ gas pollution incidences which occur within a marine park or are likely to impact a marine park as soon as possible. Notification should be provided to the 24-hour Marine Compliance Duty Officer. This notification should include: • titleholder details • time and location of the incident (including name of marine park potentially affected) • proposed response arrangements as per the Oil Pollution Emergency Plan (OPEP) • confirmation of access to relevant monitoring and evaluation reports when available • contact details for the response coordinator. Note that the DNP may request daily or weekly Situation Reports, depending on the scale and severity of the pollution incident.	Verbal	

[1] Notification to NOPSEMA must be from a Woodside Representative.
[2] An uncontrolled release of petroleum liquids exceeding 80 litres is required to be reported as a dangerous occurrence related to safety at a facility, under clause 82 of Schedule 3 of the OPGGS Act and Part 4 of the Safety Regulations.

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Timing	By	To	Name	Contact	Instruction	Form	Complete? (✓)
NOTIFICATIONS FOR ALL LEVELS OF SPILL							
As soon as practicable if there is potential for oiled wildlife or the spill is expected to contact land or waters managed by WA Department of Biodiversity, Conservation and Attractions	CIMT IC or Delegate	WA Department of Biodiversity, Conservation and Attractions (DBCA)	Duty Officer	Tel: +61 8 9182 2000 (Pilbara office)	Phone call notification	Verbal	
As soon as practicable	Public Information	Relevant persons/ organisations	To be determined	To be determined	Should it be identified that additional persons such as, but not limited to, commercial fishers or tourism operators may be affected, Woodside would, at the relevant time, engage with these parties as appropriate and in alignment with the Oil Spill Preparedness and Response Mitigation Assessment (OSPRMA) for Okha Light Well Intervention. Relevant persons/ organisations will be re-assessed throughout the response period.	Verbal initially	
As soon as practicable	Public Information	Relevant cultural authorities	To be determined	To be determined	Should it be identified that relevant cultural authorities may be affected, Woodside would, at the relevant time, engage with these parties as appropriate and in alignment with the Oil Spill Preparedness and Response Mitigation Assessment (OSPRMA) for Okha Light Well Intervention. Relevant cultural authorities will be re-assessed throughout the response period.	Verbal initially	
ADDITIONAL NOTIFICATIONS TO BE MADE ONLY IF SPILL IS FROM A VESSEL							
"Without delay" as per *Protection of the Sea (Prevention of Pollution from Ships) Act 1983* (Cth) s 11(1)	Vessel Master	Australian Maritime Safety Authority (AMSA)	Joint Rescue Coordination Centre (JRCC)	Tel: 1800 641 792 Tel: +61 2 6230 6811	Verbally notify AMSA JRCC of the hydrocarbon spill. Follow up with a written Harmful Substances Report (POLREP) as soon as practicable following verbal notification.	AMSA POLREP form	
ADDITIONAL LEVEL 2/3 NOTIFICATIONS							
As soon as practicable	CIMT IC or Delegate	AMOSC	AMOSC Duty Manager	Tel: +61 438 379 328	Notify AMOSC that a spill has occurred and follow-up with an email from the CIMT IC/ CIMT Deputy IC/ CMT Leader to formally activate AMOSC. Determine what resources are required consistent with the AMOSPlan and detail in a Service Contract that will be sent to Woodside from AMOSC upon activation.	Link	
As soon as practicable	CIMT IC or Delegate	Oil Spill Response Limited (OSRL)	OSRL Duty Manager	Tel: +65 6266 1566	Notification for all services: Contact OSRL duty manager and request assistance from technical advisor. Send the completed notification form to OSRL as soon as practicable.	Link	
					Mobilisation of response personnel/ equipment: For mobilisation of response personnel/ resources, send the Mobilisation Form to OSRL as soon as practicable. The mobilisation form must be signed by a nominated callout authority from Woodside i.e. CIMT IC/ CIMT Deputy IC/ CMT Leader. OSRL can advise the names on the call out authority list, if required.	Link	
					Mobilisation of Operational and Scientific Monitoring service: For mobilisation of Operational and Scientific Monitoring (OSM) service, send the OSM Mobilisation Form to OSRL as soon as practicable. The mobilisation form must be signed by a nominated callout authority from Woodside i.e. CIMT IC/ CIMT Deputy IC/ CMT Leader. OSRL can advise the names on the call out authority list, if required.	Link	
As soon as practicable if extra personnel are required for incident support	CIMT IC or Delegate	Marine Spill Response Corporation (MSRC)	MSRC Response Manager	Tel: +1 732 417 0175 Tel: +1 703 326 5609	Activate the contract with MSRC (in full) for the provision of up to 14 personnel depending on what skills are required. Please note that provision of these personnel from MSRC are on a best endeavours basis and are not guaranteed.	Verbal	

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2. RESPONSE TECHNIQUES

Table 2-1: Response techniques

Technique	Spill type		Level	Pre- Identified Tactics	Responsible	ALARP Commitment Summary	Link to Operational Plans for notification numbers and actions
	MDO	Crude					
Monitor and evaluate – tracking buoy	Yes	Yes	ALL	Deploy the oil spill tracking buoy within 2 hours in the event of release of hydrocarbons to the marine environment. If no oil spill tracking buoy is available, mobilise unit from the King Bay Supply Facility (KBSF) stockpile.	Operations	WITHIN 2 HOURS: Tracking buoy deployed within 2 hours.	Surveillance and Reconnaissance to Detect Hydrocarbons and Resources at Risk in Operational Monitoring Operational Plan. Deploy tracking buoy in accordance with Link.
Monitor and evaluate – predictive modelling	Yes	Yes	ALL	Undertake initial modelling using OceansMap and weathering fate analysis using Automated Data Inquiry for Oil Spills (ADIOS) or refer to the hydrocarbon information in Appendix A.	Environment	WITHIN 24 HOURS: Initial modelling within 6 hours using the OceansMap tool.	Predictive Modelling of Hydrocarbons to Assess Resources at Risk in Operational Monitoring Operational Plan. *Planning Section to download immediately and follow steps*
	Yes	Yes	ALL	Send Oil Spill Trajectory Modelling (OSTM) form (Appendix B, Form 7) to RPS Response (RPSresponse@rpsconsulting.com). Outputs will be uploaded to OceansMap by RPS.	Environment	WITHIN 24 HOURS: Detailed modelling within 4 hours of RPS Response receiving information from Woodside.	
Monitor and evaluate – aerial surveillance	Yes	Yes	ALL	Aviation Unit Leader to commence aerial observations in daylight hours. Aerial surveillance observer to complete log in Appendix B Form 8.	Logistics – Aviation	WITHIN 24 HOURS: 2 trained aerial observers. 1 aircraft available. Report made available to the IMT within 2 hours of landing after each sortie.	Surveillance and Reconnaissance to Detect Hydrocarbons and Resources at Risk in Operational Monitoring Operational Plan. *Planning Section to download immediately and follow steps*
Monitor and evaluate – satellite tracking	Yes	Yes	ALL	Environment Unit Leader to action satellite imagery services. This may be obtained via: • AMOSC Duty Manager: +61 438 379 328 • OSRL Duty Manager: +65 6266 1566 • KSAT: emergency@ksat.no, +47 7766 1300 • Others identified by CIMT	Environment	WITHIN 24 HOURS: Service provider will confirm availability of an initial acquisition within 2 hours. Data received to be uploaded into Woodside Common Operating Picture.	
Revalidate pre-operational NEBA	Yes	Yes	ALL	Environment Unit Leader to revalidate pre-operational NEBA against current situational awareness from monitor and evaluate techniques.	Environment	WITHIN 24 HOURS: Revalidate pre-operational NEBA and incorporate into IAP	Pre-operational NEBAs
Monitor and evaluate – pre-emptive assessment of receptors at risk	Potentially	Potentially	ALL	Consider the need to mobilise resources to undertake pre-emptive assessment of sensitive receptors at risk.	Planning or Environment	In agreement with WA DTMI, deployment of 2 specialists for each of the Response Protection Areas (RPA) with predicted impacts.	Pre-emptive Assessment of Sensitive Receptors in Operational Monitoring Operational Plan.
Operational and Scientific Monitoring	Yes	Yes	ALL	Consider the need to mobilise OSM resources via third party service provider.	Environment	WITHIN 4 HOURS: Notify service provider of spill event. OSM: OMPs and SMPs will be activated in accordance with the initiation criteria provided in Tables 9-1 and 9-2 of the Joint Industry OSM Framework (APPEA [now AEP], 2021)	Mobilise OSM service via OSRL: Link Refer to OSM Bridging Implementation Plan – Part B for additional implementation information: Link Refer to Joint Industry Operational And Scientific Monitoring Plan Framework for activation criteria and additional supporting information.
Surface dispersant	No	No	N/A	This response strategy is not recommended.			
Containment and recovery	No	No	N/A	This response strategy is not recommended.			
Mechanical dispersion	No	No	N/A	This response strategy is not recommended.			
In-situ burning	No	No	N/A	This response strategy is not recommended.			
Shoreline protection and deflection	No	No	N/A	This response strategy is not recommended – no shoreline contact predicted.			
Shoreline clean-up	No	No	N/A	This response strategy is not recommended – no shoreline contact predicted.			
Oiled wildlife response	Yes	Yes	ALL	If oiled wildlife is a potential impact, request AMOSC to mobilise containerised oiled wildlife first strike kits and relevant personnel. Refer to relevant Tactical Response Plan for potential wildlife at risk. Mobilise AMOSC Oiled Wildlife Containers.	Logistics and Planning		Oiled Wildlife Response Operational Plan

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Technique	Spill type		Level	Pre- Identified Tactics	Responsible	ALARP Commitment Summary	Link to Operational Plans for notification numbers and actions
	MDO	Crude					
				Consider whether additional equipment is required from local suppliers.			
SOURCE CONTROL TECHNIQUES							
Source control via Remotely operated vehicle (ROV) override of well control package (WCP)	N/A	Yes	L2/3	Light Well Intervention (LWI) vessel ROV to conduct WCP ROV overrides. If LWI vessel is unavailable, SFRT blowout preventer (BOP) intervention skid can be used on third party vessel to execute independent contingency closure of WCP.	Vessel Master/ Source Control	WITHIN 12 HOURS: LWI vessel ROV deployed to manually close valves.	Wells Global Source Control Emergency Response Plan LWIV Emergency Response Plan Engineering Assessment
Subsea Dispersant	N/A	No	N/A	This response strategy is not suitable given the nature of the subsea LOWC release.			
Capping Stack	N/A	No	N/A	This response strategy is not suitable given the nature of the subsea LOWC release.			
Relief Well	N/A	No	N/A	This response strategy is not suitable given the nature of the subsea LOWC release.			

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3. RESPONSE PROTECTION AREAS

Action: Provide relevant Control Agency with applicable Tactical Response Plans for any Response Protection Areas (RPAs) identified during operational monitoring.

Based on hydrocarbon spill risk modelling results, there are no priority protection areas that have the potential to be contacted by hydrocarbon at or above impact threshold levels within or beyond 48 hours of the modelled spill scenarios.

If required, Tactical Response plans for relevant locations can be accessed via the link here and include the details of potential forward operating bases and staging areas.

Oil Spill Trajectory Modelling specific to the spill event will be required to determine the regional sensitive receptors to be contacted within and beyond 48 hours of a spill.

Figure 3-1 illustrates the location of the Okha Light Well Intervention Operational Area.

Consideration should be given to other stakeholders (including mariners) in the vicinity of the spill location. Table 3-2 indicates the assets within the vicinity of the Operational Areas (OA) for the Okha Light Well Intervention Petroleum Activity which comprises Cossack-4H (CK-4), Lambert-3 (LH-3), Wanaea-7ST1 (WA-7), Wanaea-8 (WA-8) wells. The locations of these wells are detailed in Table 3-1:

Table 3-1: Location of wells

Well	Latitude	Longitude
Cossack-4H (CK-4)	19° 33′ 22.909″ S	116° 29′ 35.754″ E
Lambert-3 (LH-3)	19° 26′ 58.469″ S	116° 29′ 16.227″ E
Wanaea-7ST1 (WA-7)	19° 35′ 31.586″ S	116° 26′ 6.622″ E
Wanaea-8 (WA-8)	19° 34′ 40.796″ S	116° 26′ 59.438″ E

Table 3-2: Assets in the vicinity of the Okha Light Well Intervention Operational Areas

Asset	Distance and direction from Operational Area	Operator
Okha Floating Production and Offloading Storage (FPSO)[3]	Overlapping WA-7 and WA-8 OAs 5.1 km south west of CK-4 OA 15.1 km south-south-west of LH-3 OA	Woodside
Angel Facility	11.7 km north east of CK-4 OA 11.8 km south-east of LH-3 OA 16.8 km north east of WA-8 OA 19.0 km north east of WA-7 OA	Woodside
North Rankin Complex	30.2 km west of WA-7 OA 31.8 km west of WA-8 OA 36.5 km west of CK-4 OA 38.7 km south-west of LH-3 OA	Woodside
Reindeer Platform	48.6 km south-south-west of WA-7 OA 50.3 km south-south-west of WA-8 OA 54.2 km south-south-west of CK-4 OA 65.1 km south-south-west of LH-3 OA	Santos
Goodwyn Alpha Platform	52.5 km west of WA-7 OA 54.2 km west of WA-8 OA 59.0 km west-south-west of CK-4 OA 61.8 km west-south-west of LH-3 OA	Woodside

[3] Infrastructure associated with the ongoing production from the CK-4 and LH-3 wells through the Okha FPSO are within the CK-4 and LH-3 Well Intervention Operational Area, including manifolds, umbilicals and flowlines

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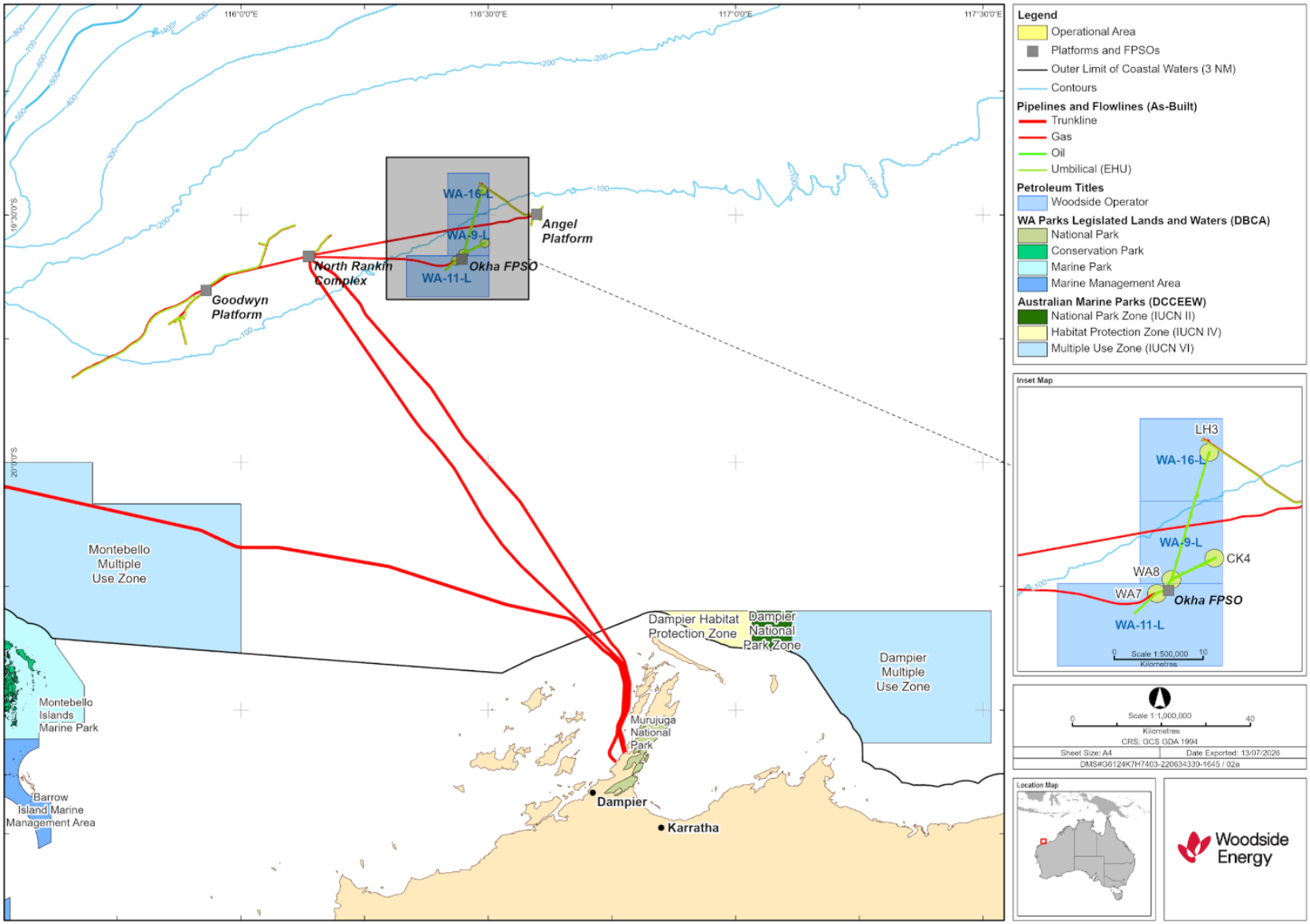


Figure 3-1: Operational area

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4. DISPERSANT APPLICATION

Dispersant is not considered an appropriate response strategy for this activity as described in the Okha Light Well Intervention Environment Plan Appendix F (Woodside's Oil Spill Preparedness and Response Mitigation Assessment).

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5. GLOSSARY AND ABBREVIATIONS

Term	Definition
ADIOS	Automated Data Inquiry for Oil Spills
AEP	Australian Energy Producers
ALARP	As low as reasonably practicable. Demonstration through reasoned and supported arguments that there are no other practicable options that could reasonably be adopted to reduce risks further.
AMOSC	Australian Marine Oil Spill Centre
AMSA	Australian Maritime Safety Authority
APPEA	Australian Petroleum Production & Exploration Association (became AEP in 2023)
BOP	Blowout Preventer
BP	Boiling point
CIMT	Corporate Incident Management Team
CS	Credible Scenario
DBCA	Western Australian Department of Biodiversity, Conservation and Attractions
DCCEEW	Commonwealth Department of Climate Change, Energy, the Environment and Water
DMPE	Western Australian Department of Mining, Petroleum and Exploration
DPIRD	Western Australian Department of Primary Industries and Regional Development
DTMI	Western Australian Department of Transport and Major Infrastructure
EOC	Emergency Operations Centre
EP	Environment Plan
FOB	Forward Operating Base
FPSO	Floating Production Storage and Offloading
HMA	Hazard Management Agency
HSE	Health, safety and environment
IAP	Incident Action Plan
IC	Incident Commander
ICC	Incident Control Centre
IMT	Incident Management Team
JRCC	Joint Rescue Coordination Centre
KBSB	King Bay Supply Base
LWI	Light Well Intervention
MDO	Marine Diesel Oil
MEECC	Maritime Environmental Emergency Coordination Centre
MEER	Maritime Environmental Emergency Response
MGO	Marine gas oil
MOP	Marine oil pollution
MSRC	Marine Spill Response Corporation
N/A	Not applicable / available
NEBA	Net Environmental Benefit Analysis
NOPSEMA	National Offshore Petroleum Safety and Environmental Management Authority (Australia)
OIM	Offshore Installation Manager

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Term	Definition
OPEP	Oil Pollution Emergency Plan
OSM	Operational and Scientific Monitoring
OSPRMA	Oil Spill Preparedness and Response Mitigation Assessment
OSRL	Oil Spill Response Limited
OSTM	Oil Spill Trajectory Modelling
OTL	Onshore Team Leader
PIC	Person In Charge
POLREP	Pollution Report
ROV	Remotely Operated Vehicles
RPA	Response Protection Area
SCAT	Shoreline Clean-up Assessment Technique
SFRT	Subsea First Response Toolkit
SMPC	State Marine Pollution Coordinator
SOPEP	Shipboard Oil Pollution Emergency Plan
TRP	Tactical Response Plan
WA	Western Australia
WAFIC	WA Fishing Industry Council
WCC	Woodside Communications Centre
WCCS	Worst Case Credible Scenario
WCP	Well Control Package
WSR	Woodside representative

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APPENDIX A – CREDIBLE SPILL SCENARIOS AND HYDROCARBON INFORMATION

Table A - 1: Credible spill scenarios and hydrocarbon information

Scenario	Product	API gravity	Volume	Residue	Weathering rate		Suggested ADIOS2 Analogue[4]
CS-01 (WCCS) *12-hour subsea hydrocarbon release caused by loss of well containment during well intervention at CK-4 well.*	Cossack Light Crude	48.1°	550 m^3	15.2% (83.6 m^3)	12 hours (BP < 180 °C)	52.2%	Cossack light crude API 48.1
					24 hours (180 °C < BP < 265 °C)	20.5%	
					Several days (265 °C < BP < 380 °C)	11.9%	
CS-02 *Subsea hydrocarbon release caused by loss of well containment during well intervention at LH-3 well*	Cossack Light Crude	48.1°	117 m^3	15.2% (17.8 m^3)	12 hours (BP < 180 °C)	52.2%	Cossack light crude API 48.1
					24 hours (180 °C < BP < 265 °C)	20.5%	
					Several days (265 °C < BP < 380 °C)	11.9%	
CS-03 *Surface hydrocarbon release caused by vessel tank rupture due to vessel collision near the CK-4 well*	Marine Diesel Oil	37.2°	250 m^3	5% (12.5 m^3)	12 hours (BP < 180 °C)	6%	Diesel Fuel Oil - Southern ISA 1 (API 37.2)
					24 hours (180 °C < BP < 265 °C)	34.6%	
					Several days (265 °C < BP < 380 °C)	54.4%	
CS-04 *Surface hydrocarbon release caused by rupture of the 8-inch production flowline due to a dropped object near the Lambert Hermes manifold (LHM).*	Cossack Light Crude	48.1°	414 m^3	15.2% (62.9 m^3)	12 hours (BP < 180 °C)	52.2%	Cossack light crude API 48.1
					24 hours (180 °C < BP < 265 °C)	20.5%	
					Several days (265 °C < BP < 380 °C)	11.9%	
CS-05 *Surface hydrocarbon release caused by failure of a fuel transfer hose or fittings curing marine diesel bunkering operations for the LWIV.*	Marine Diesel Oil	37.2°	24 m^3	5% (1.2 m^3)	12 hours (BP < 180 °C)	6%	Diesel Fuel Oil - Southern ISA 1 (API 37.2)
					24 hours (180 °C < BP < 265 °C)	34.6%	
					Several days (265 °C < BP < 380 °C)	54.4%	
CS-06		48.1°	42 m^3	15.2%	12 hours (BP < 180 °C)	52.2%	

[4] Initial screening of possible ADIOS2 analogues considered hydrocarbons with similar APIs. Suggested selection is based on the closest distillation cut to the Woodside hydrocarbon. Only hydrocarbons with >380°C distillation cuts were included in selection process.

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Scenario	Product	API gravity	Volume	Residue	Weathering rate		Suggested ADIOS2 Analogue[4]
Subsea hydrocarbon release caused by loss of containment from the CK4 SCSSV control line leak path during XT changeout, resulting in release of well fluids and crude oil inventory.	Cossack Light Crude			(6.4 m^3)	24 hours (180 °C < BP < 265 °C)	20.5%	Cossack light crude API 48.1
					Several days (265 °C < BP < 380 °C)	11.9%	

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APPENDIX B – NOTIFICATION FORMS

Table B - 1: Notification forms

No.	Form Name	Link
1	Record of initial verbal notification to NOPSEMA template	Link
2	NOPSEMA Incident Report Form	Link
3	Harmful Substances Report (POLREP – AMSA)	Link
4	Marine Pollution Report (POLREP – DTMI)	Link
5	AMOSC Service Contract	Link
6a	OSRL Initial Notification Form	Link
6b	OSRL Mobilisation Activation Form	Link
6c	OSRL Operational and Scientific Monitoring Service Mobilisation Form	Link
7	RPS Response Oil Spill Trajectory Modelling Request	Link
8	Aerial Surveillance Observer Log	Link
9	Tracking buoy deployment instructions	Link

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FORM 1 – RECORD OF INITIAL VERBAL NOTIFICATION TO NOPSEMA

NOPSEMA phone: +61 1300 674 472		
Date of call		
Time of call		
Call made by		
Call made to		
Information to be provided to NOPSEMA:		
Date and time of incident/ time caller became aware of incident		
Details of incident	1. Location	
	2. Title	
	3. Source	□ Platform
		□ Pipeline
		□ FPSO
		□ Exploration drilling
		□ Well
		□ Other (please specify)
	4. Hydrocarbon type	
	5. Estimated volume	
	6. Has the discharge ceased?	
	7. Fire, explosion or collision?	
	8. Environment Plan(s)	
	9. Other Details	
Actions taken to avoid or mitigate environmental impacts		
Corrective actions taken or proposed to stop, control or remedy the incident		
After the initial call is made to NOPSEMA, please send this record as soon as practicable to:		
NOPSEMA	submissions@nopsema.gov.au	
NOPTA	resources@nopta.gov.au	
DMPE	petroleum.environment@dmpe.wa.gov.au	

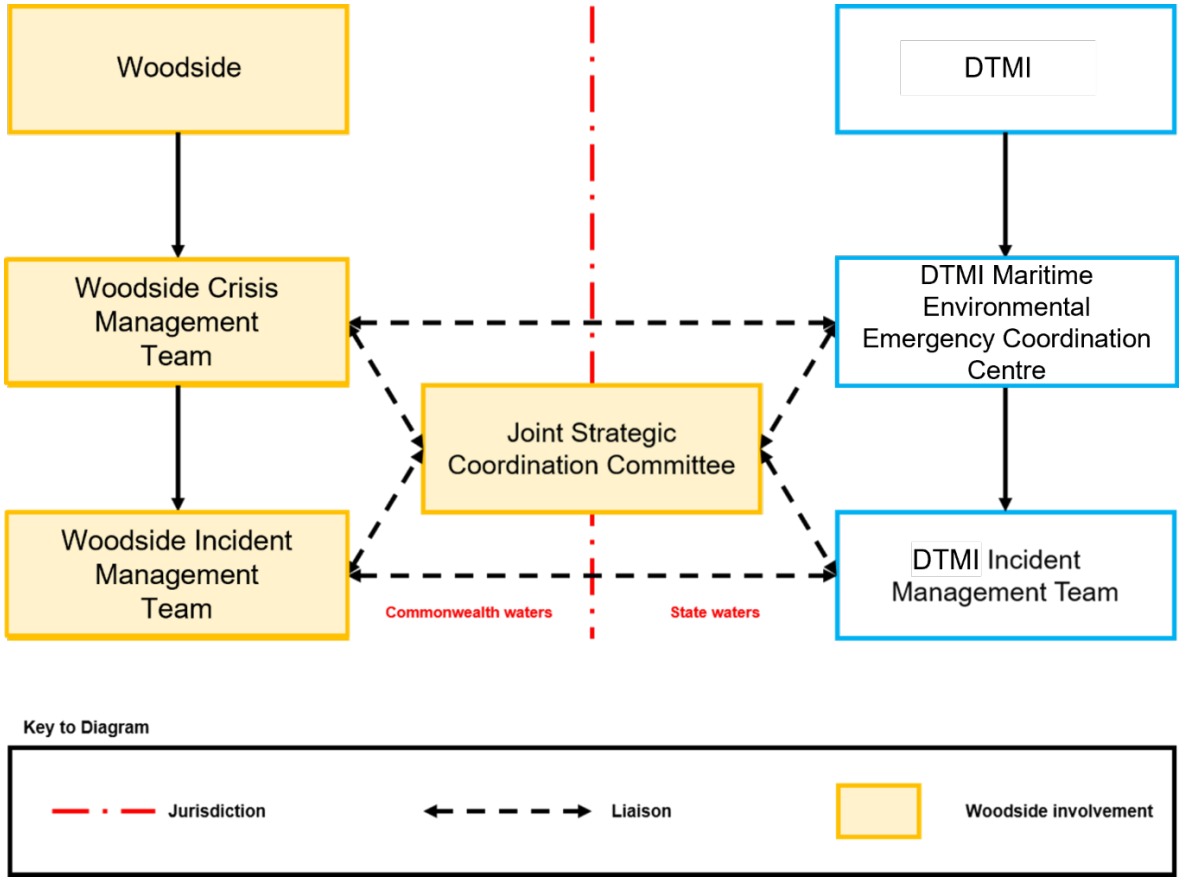
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APPENDIX C – SPILL ASSESSMENT QUESTIONS

What has happened?		
Date/time		
Spill source		
Spill cause		
Safety situation		
What is it?		
Oil type and name		
Oil properties	Specific gravity	
	Viscosity	
	Pour point	
	Asphaltenes	
	Wax content	
	Boiling point	
Where is it?		
Latitude and longitude		
Distance and bearing		
Affected area	☐ Offshore	
	☐ Subsea	
	☐ Shoreline	
	☐ Estuary	
	☐ Port	
	☐ Harbour	
	☐ Inland	
	☐ River	
	☐ Other (please detail):	
Water depth		
How big is it?		
Area		
Release type	☐ Instantaneous	Estimated volume:
	☐ Continuous release	Estimated release rate:
Where is it going?		
Metocean conditions		
Currents and tides		
What is in the way?		
Resources at risk		
Time until resource contact		
What's happening to it?		
Weathering processes		
Response actions underway		

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APPENDIX D – COORDINATION STRUCTURE FOR A CONCURRENT HYDROCARBON SPILL IN BOTH COMMONWEALTH AND STATE WATERS/ SHORELINES[5]



The Control Agency for a hydrocarbon spill in Commonwealth waters resulting from an offshore petroleum activity is Woodside (the Petroleum Titleholder).

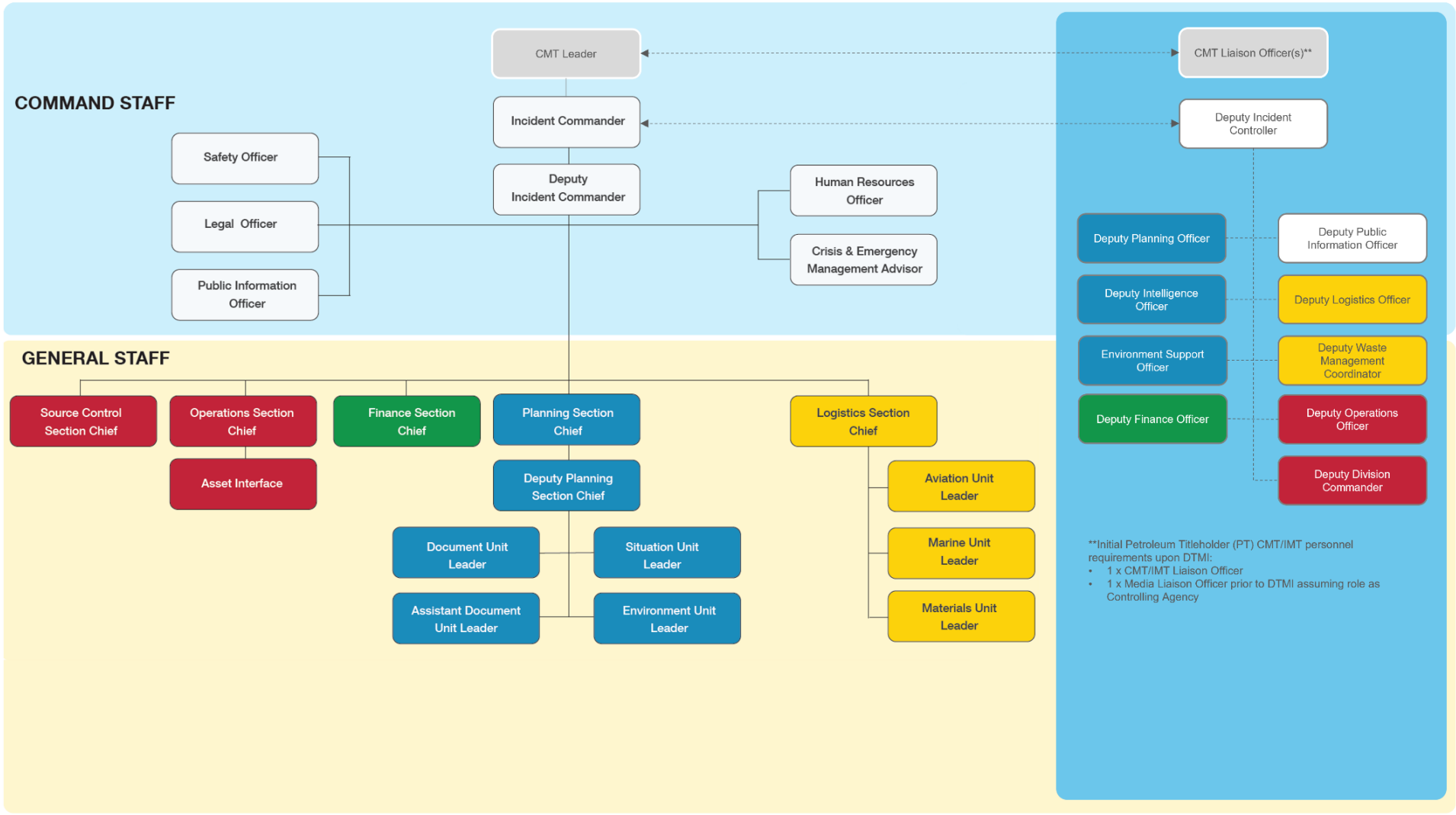
The Control Agency/ Hazard Management Agency (HMA) for a hydrocarbon spill in State waters/shorelines resulting from an offshore petroleum activity is DTMI. DTMI will appoint an Incident Controller and form a separate IMT to only manage the spill within State waters/shorelines.

[5] Adapted from DTMI Offshore Petroleum Industry Guidance Note, Marine Oil Pollution: Response and Consultation Arrangements July 2020. Note: For full structure up to Commonwealth Cabinet/Minister refer to Marine Oil Pollution: Response and Consultation Arrangements Section 6.5, Figure 4.

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APPENDIX E – WOODSIDE INCIDENT MANAGEMENT STRUCTURE

Woodside Incident Management Structure for Hydrocarbon Spill (including Woodside Liaison Officers Command Structure within DTMI IMT if required) is shown below. Woodside's CIMT would operate from the Emergency Operations Centre (EOC) at the Woodside headquarters in Perth.



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APPENDIX F – WOODSIDE LIAISON OFFICER RESOURCES TO DTMI

In the event that DTMI is required to establish an IMT, Woodside will make available an appropriate number of appropriately qualified persons to work within the DTMI IMT.

It is an expectation that Woodside's nominated CMT Liaison Officer and the Deputy Incident Controller attend the DTMI Fremantle Incident Control Centre (ICC) as soon as possible after the formal request has been made by the State Marine Pollution Coordinator (SMPC), and that the remaining initial cohort will attend no later than 8 am on the day following the request being formally made to Woodside by the SMPC. For Woodside personnel designated to serve in DTMI's Forward Operating Base (FOB), it is expected that they arrive at the FOB no later than 24 hours from the formal request being made by the SMPC.

Area	Role	Woodside personnel[6]	Key Duties	#
DTMI Maritime Environmental Emergency Coordination Centre (MEECC)	CMT Liaison Officer	CIMT Liaison	• Provide a direct liaison between the CMT and the MEECC. • Facilitate effective communications and coordination between the CIMT Leader and SMPC. • Offer advice to SMPC on matters pertaining to PT crisis management policies and procedures.	1
DTMI IMT Incident Control	Deputy Incident Controller	Deputy Incident Commander (Deputy IC)	• Provide a direct liaison between the PT IMT and DTMI IMT. • Facilitate effective communications and coordination between the PT IC and the DTMI IC. • Offer advice to the DTMI IC on matters pertaining to PT incident response policies and procedures. • Offer advice to the Safety Coordinator on matters pertaining to PT safety policies and procedures, particularly as they relate to PT employees or contractors operating under the control of the DTMI IMT.	1
DTMI IMT Intelligence	Deputy Intelligence Officer	Situation Unit Leader (Intelligence)	• As part of the Intelligence Team, assist the Intelligence Officer in the performance of their duties in relation to situation and awareness. • Facilitate the provision of relevant modelling and predications from the PT IMT. • Assist in the interpretation of modelling and predictions originating from the PT IMT. • Facilitate the provision of relevant situation and awareness information originating from the DTMI IMT to the PT IMT. • Facilitate the provision of relevant mapping from the PT IMT. • Assist in the interpretation of mapping originating from the PT IMT. • Facilitate the provision of relevant mapping originating from the DTMI IMT to the PT IMT.	1
DTMI IMT Intelligence – Environment	Environment Support Officer	Deputy Environment Unit Leader	• As part of the Intelligence Team, assist the Environment Coordinator in the performance of their duties in relation to the provision of environmental support into the planning process. • Assist in the interpretation of the PT OPEP and relevant TRP plans. • Facilitate in requesting, obtaining and interpreting environmental monitoring data originating from the PT IMT.	1

[6] *These positions would be mobilised, in consultation with DTMI, to align to the actual spill scenario. The selected roles and/or individual personnel would be subject to continued evaluation to ensure continued 'best fit'. For CIMT roster arrangements, contact the WCC. During a prolonged response, additional personnel may be sourced through internal resourcing and mutual Aid agreements such as the AMOSC Core Group via* AMOSC Service Contract

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Area	Role	Woodside personnel[6]	Key Duties	#
			• Facilitate the provision of relevant environmental information and advice originating from the DTMI IMT to the PT IMT.	
DTMI IMT Planning-Plans/ Resources	Deputy Planning Officer	Deputy Planning Section Chief	• As part of the Planning Team, assist the Planning Officer in the performance of their duties in relation to the interpretation of existing response plans and the development of incident action plans and related sub plans. • Facilitate the provision of relevant IAP and sub plans from the PT IMT. • Assist in the interpretation of the PT OPEP from the PT. • Assist in the interpretation of the PT IAP and sub plans from the PT IMT. • Facilitate the provision of relevant IAP and sub plans originating from the DTMI IMT to the PT IMT. • Assist in the interpretation of the PT existing resource plans. • Facilitate the provision of relevant components of the resource sub plan originating from the DTMI IMT to the PT IMT. **(Note this individual must have intimate knowledge of the relevant PT OPEP and planning processes)**	1
DTMI IMT Public Information-Media/ Community Engagement	Deputy Public Information Officer	Deputy Public Information Officer	• As part of the Public Information Team, provide a direct liaison between the PT Media team and DTMI IMT Media team. • Facilitate effective communications and coordination between the PT and DTMI media teams. • Assist in the release of joint media statements and conduct of joint media briefings. • Assist in the release of joint information and warnings through the DTMI Information and Warnings team. • Offer advice to the DTMI Media Coordinator on matters pertaining to PT media policies and procedures. • Facilitate effective communications and coordination between the PT and DTMI Community Liaison teams. • Assist in the conduct of joint community briefings and events. • Offer advice to the DTMI Community Liaison Coordinator on matters pertaining to the PT community liaison policies and procedures. • Facilitate the effective transfer of relevant information obtained from through the Contact Centre to the PT IMT.	1
DTMI IMT Logistics	Deputy Logistic Officer	Deputy Logistics Section Chief	• As part of the Logistics Team, assist the Logistics Officer in the performance of their duties in relation to the provision of supplies to sustain the response effort. • Facilitate the acquisition of appropriate supplies through the PTs existing OSRL, AMOSC and private contract arrangements. • Collects Request Forms from DTMI to action via PT IMT. **(Note this individual must have intimate knowledge of the relevant PT logistics processes and contracts)**	1

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Area	Role	Woodside personnel[6]	Key Duties	#
DTMI IMT Finance-Accounts/ Financial Monitoring	Deputy Finance Officer	Deputy Finance Section Chief	• As part of the Finance Team, assist the Finance Officer in the performance of their duties in relation to the setting up and payment of accounts for those services acquired through the PTs existing OSRL, AMOSC and private contract arrangements. • Facilitate the communication of financial monitoring information to the PT to allow them to track the overall cost of the response. • Assist the Finance Officer in the tracking of financial commitments through the response, including the supply contracts commissioned directly by DTMI and to be charged back to the PT.	1
DTMI IMT Operations	Deputy Operations Officer	Deputy Operations Section Chief	• As part of the Operations Team, assist the Operations Officer in the performance of their duties in relation to the implementation and management of operational activities undertaken to resolve an incident. • Facilitate effective communications and coordination between the PT Operations Section and the DTMI Operations Section. • Offer advice to the DTMI Operations Officer on matters pertaining to PT incident response procedures and requirements. • Identify efficiencies and assist to resolve potential conflicts around resource allocation and simultaneous operations of PT and DTMI response efforts.	1
DTMI IMT Operations – Waste Management	Deputy Waste Management Coordinator	Deputy Waste Coordinator (Materials)	• As part of the Operations Team, assist the Waste Management Coordinator in the performance of their duties in relation to the provision of the management and disposal of waste collected in State waters. • Facilitate the disposal of waste through the PT's existing private contract arrangements related to waste management and in line with legislative and regulatory requirements. • Collects Request Forms from DTMI to action via PT IMT.	1
DTMI FOB Operations Command	Deputy Division Commander	FOB Deputy Incident Commander	• As part of the Field Operations Team, assist the Division Commander in the performance of their duties in relation to the oversight and coordination of field operational activities undertaken in line with the IMT Operations Section's direction. • Provide a direct liaison between the PT FOB and DTMI FOB. • Facilitate effective communications and coordination between the PT Division Commander and the DTMI Division Commander. • Offer advice to the DTMI Division Commander on matters pertaining to PT incident response policies and procedures. • Assist the Safety Coordinator deployed in the FOB in the performance of their duties, particularly as they relate to PT employees or contractors. • Offer advice to the Safety Coordinator deployed in the FOB on matters pertaining to PT safety policies and procedures.	1
			Total	11

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APPENDIX G – DTMI LIAISON OFFICER RESOURCES TO WOODSIDE

Once DTMI activates a State waters/ shorelines IMT, DTMI will make available the following roles to Woodside.

Area	DTMI Liaison Role	Personnel Sourced from:	Key Duties	#
Woodside CIMT	DTMI Liaison Officer (prior to DTMI assuming Controlling Agency)/ Deputy Incident Controller – State waters (after DTMI assumes Controlling Agency)	DTMI	• Facilitate effective communications between DTMI's SMPC/ Incident Controller and the Petroleum Titleholder's appointed CMT Leader / Incident Controller. • Provide enhanced situational awareness to DTMI of the incident and the potential impact on State waters. • Assist in the provision of support from DTMI to the Petroleum Titleholder. • Facilitate the provision technical advice from DTMI to the Petroleum Titleholder Incident Controller as required.	1
Woodside CIMT Public Information – Media	DTMI Media Liaison Officer	DTMI	• Provide a direct liaison between the PT Media team and DTMI IMT Media team. • Facilitate effective communications and coordination between the PT and DTMI media teams. • Assist in the release of joint media statements and conduct of joint media briefings. • Assist in the release of joint information and warnings through the DTMI Information & Warnings team. • Offer advice to the PT Media Coordinator on matters pertaining to DTMI and wider Government media policies and procedures.	1
			Total DTMI Personnel Initial Requirement to Woodside	2

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