

CONTROLLED DOCUMENT

Title:OPERATING STANDARD - ENVIRONMENTAL PERFORMANCE STANDARDS

Controlled Reference Number: WM1050SH5099397

Revision: 0

Information Security Classification: 2. RESTRICTED

Approval Setup Details

Role	Person
Document Author	Peach, Deborah D.
Document Controller	Siegertsz, Becky B.
Concurrence Approver	Trench, Steve S.
Custodian	Baird, Gordon G.J.
Approver	Guthrie, Vanessa V.

Approval Outcome Details

Approval Outcome	Date
Prepared by Peach, Deborah D.	20/10/2009 3:03 PM
Approved by Siegertsz, Becky B.	20/10/2009 3:07 PM
Approved by Trench, Steve S.	20/10/2009 3:35 PM
Approved by Baird, Gordon G.J.	20/10/2009 4:13 PM
Approved by Guthrie, Vanessa V.	20/10/2009 4:21 PM

APPROVED

Woodside Operating Standards

Environmental Performance Standards Operating Standard

Sustainable Development

Status: Approved

Date: 29 September 2009

Endorsed by: Business Operating Committee

Information Security Classification: Restricted

APPROVED

THE WOODSIDE MANAGEMENT SYSTEM

The Woodside Management System (WMS) defines how Woodside will deliver its business objectives and the boundaries within which all Woodside employees and contractors will work. To achieve this, the WMS defines our Direction, organisation and expectations.

The WMS sets mandatory requirements and provides guidance regarding the conduct of Woodside's operations and business activities.

The WMS comprises two core elements – The Direction; and The Expectations. The relationship between these elements and hierarchy of documentation is outlined in the WMS Model.



The WMS Model

Woodside Direction

The top level of the Management System triangle represents the Woodside 'Direction,' our strategies for realising our goals, and processes to set and track the objectives and milestones we must achieve along the way.

Woodside Management Standards

The Management Standards comprise a set of ten standards that define global performance requirements and apply to all Woodside managers, employees and contractors.

Woodside Operating Standards

Operating Standards define minimum governance and functional expectations, and support the Direction and Management Standards.

Mandatory global engineering requirements are defined in Engineering Operating Standards.

These are Operating Standards with governance and approval defined in an overarching Operating Standard and with the same authority as Operating Standards.

The Operating Standards apply to all Woodside managers, employees and contractors, and across business activities and operations.

Processes and Procedures

Processes and Procedures are locally developed documents that describe local, mandatory expectations that demonstrate how Management Standard and Operating Standard expectations will be met.

Guidelines and Tools

Guidelines and Tools provide guidance on how expectations provided in all Standards, Processes and Procedures can be met.

APPROVED

TABLE OF CONTENTS

1.	INTRODUCTION	2
1.1	SCOPE	2
1.2	OBJECTIVES	2
1.3	ACCOUNTABILITY & REVIEW	2
2.	SUPERSEDED DOCUMENTATION	2
3.	DEVIATIONS.....	3
4.	PERFORMANCE REQUIREMENTS	3
4.1	ATMOSPHERIC EMISSIONS	3
4.1.1	Greenhouse Gas Emissions	3
4.1.2	Flaring and Venting.....	3
4.1.3	Ozone Depleting Substances	3
4.1.4	Combustion Emissions	4
4.1.5	Dust and Fugitive Air Emissions.....	4
4.2	EFFLUENT DISCHARGES	4
4.2.1	Waste Water Discharges	4
4.2.2	Drilling Cuttings, Fluids and Additives	5
4.2.3	Chemical Use and Selection.....	5
4.3	WASTE TRANSPORT, STORAGE AND DISPOSAL	5
4.3.1	Waste Storage, Transport and Disposal.....	5
4.4	CONTAMINATION	5
4.4.1	Onshore and Offshore Contamination	5
4.4.2	Loss of Containment.....	6
4.5	RESOURCE CONSUMPTION	6
4.5.1	Energy Efficiency / Fuel Use.....	6
4.5.2	Water Consumption	6
4.6	ENVIRONMENTAL IMPACT ASSESSMENT.....	6
4.6.1	Environmental Impact Assessment	6
4.7	BIODIVERSITY	6
4.7.1	Physical Impacts on Biodiversity	6
4.7.2	Invasive Species.....	6
4.8	DOCUMENTATION.....	7
4.8.1	Environmental Management Manual.....	7
4.8.2	Environmental Performance Scorecard.....	7
5.	DEFINITIONS.....	8
APPENDIX A:	REFERENCE STANDARDS	10
APPENDIX B:	REGISTERS AND PLANS TO BE INCLUDED IN THE ENVIRONMENTAL MANAGEMENT MANUAL	12

ENVIRONMENTAL PERFORMANCE STANDARDS
OPERATING STANDARD

1. INTRODUCTION

Operating Standards form a core part of the Woodside Management System. Operating Standards set performance requirements necessary to ensure compliance with the Woodside Management Standards. Operating Standards can cover process, technical or performance aspects of Woodside's business.

1.1 Scope

- This Operating Standard sets the minimum expectations for environmental performance at Woodside. Each Business Unit and Functional Division must also comply with any additional sovereign or legal requirements at each location. Where no legal requirements exist, or where the law is less onerous, the Performance Requirements in this Operating Standard shall be met as a minimum. Deviation to a less onerous Performance Requirement requires approval as outlined in Section 3.
- The Performance Requirements apply to all Woodside controlled activities, including those carried out by contractors and joint ventures engaged in activities under Woodside operational control.
- For activities in which Woodside has an interest but does not have direct operational control, Woodside shall encourage the operator to meet these Performance Requirements.
- New developments may need to commit to more stringent standards during environmental approvals processes, and should use a risk based process to set appropriate design standards to achieve future performance and compliance. The Business Unit Vice President and the Vice President Sustainable Development shall approve any changes to environmental design.

1.2 Objectives

The objective of this Operating Standard is to define the minimum expectations for environmental performance at Woodside.

1.3 Accountability & Review

- The Vice President of Sustainable Development is accountable for the content of this Operating Standard.
- The Vice President(s) of each Business Unit and Functional Division are accountable for compliance with this Operating Standard.
- This Standard shall be reviewed and updated by the General Manager - Environment to maintain currency, and at least every three years.

2. SUPERSEDED DOCUMENTATION

The following Sub-Processes, Performance / Technical Standards and or Procedures are superseded by the introduction of this Operating Standard:

- Woodside Environmental Standards (WES) (WM1050AH4224792)

3. DEVIATIONS

Formal Management of Change (MoC) is required to deviate from the Performance Requirements contained within this Standard. MoC requirements for Operating Standards are defined within the Operating Standard - Management of Change.

Where a deviation from this Operating Standard cannot be reasonably avoided, a business case shall be prepared by the Functional Vice President, Business Unit Vice President and the Vice President Sustainable Development and approved by the Chief Executive Officer (CEO). The business case shall include clear reasons for the lack of compliance, duration for which the deviation is required, and detail any actions to achieve compliance in the future.

4. PERFORMANCE REQUIREMENTS

This section outlines the mandatory performance requirements necessary to undertake the activities governed by this Operating Standard. Performance requirements ensure compliance with Woodside's Management Standards and Function / Division / Business Unit expectations.

4.1 ATMOSPHERIC EMISSIONS

4.1.1 Greenhouse Gas Emissions

- 4.1.1.a Each Business Unit shall determine the marginal cost of abatement for each facility, project or development with more than 20,000 tonnes CO₂-e of annual forecast greenhouse gas emissions.
- 4.1.1.b Greenhouse emissions shall be measured and reported annually by the Business Unit and shall include an annual forecast of greenhouse gas emissions that is consistent with production forecasting horizons.

4.1.2 Flaring and Venting

- 4.1.2.a Flaring must be controlled by each facility in line with annual limits set in the operating plan and performance agreements. As a minimum each facility shall be designed and operated to control dark smoke emissions to Ringelmann 3 or less for no more than 30 minutes in any 24 hour period.
- 4.1.2.b Venting including Volatile Organic Compounds (VOCs) from facilities shall have no measurable impact on local/regional air quality and human health.

4.1.3 Ozone Depleting Substances

- 4.1.3.a Ozone Depleting Substances shall be managed in compliance with the Montreal Protocol and local regulations.
- 4.1.3.b Where systems using Ozone Depleting Substances (ODS) need replacement, these shall be replaced by ODS free systems, or if none are available, by substances with the lowest practicable ozone depleting potential. ODS shall not be used in any new design.
- 4.1.3.c All substances with ozone depleting potential greater than 0.1 shall be removed by 2010 and substances with ozone depleting potential between 0 and 0.1 shall be removed by 2020.

ENVIRONMENTAL PERFORMANCE STANDARDS
OPERATING STANDARD

4.1.4 Combustion Emissions

- 4.1.4.a Where there are sensitive receptors in the air-shed, ambient air quality levels (CO, NO₂, SO₂, O₃, Pb and PM10) shall not exceed 50% of the following values within the specified averaging periods:

Ambient Air Quality Standards

Pollutant	Averaging Period	Maximum Concentration
Carbon monoxide (CO)	8 hours	9.0 parts per million (ppm)
Nitrogen dioxide (NO ₂)	1 hour	0.12 ppm
	1 year	0.03 ppm
Photochemical oxidants (as ozone)	1 hour	0.10 ppm
	4 hours	0.08 ppm
Sulfur dioxide (SO ₂)	1 hour	0.20 ppm
	1 day	0.08 ppm
	1 year	0.02 ppm
Lead (Pb)	1 year	0.50 µg/m ³
Particles as PM10	1 day	50 µg/m ³

- 4.1.4.b In the absence of other local regulations, NO_x emissions onshore from new or replacement stationary gas turbine sources shall meet the requirements set out in the table below. Offshore facilities shall optimise energy efficiency rather than pursue NO_x controls.

Fuels	Rated Electrical Output	Oxides of Nitrogen* (grams per million ³)	Approximate ppm
Gaseous	Less than 10 MW	0.09	44
	Greater than 10 MW	0.07	34
Other	Less than 10 MW	0.09	44
	Greater than 10 MW	0.15	73

* Calculated as NO₂ at a 15% oxygen reference level, dry, at Standard Temperature and Pressure (STP)

- 4.1.4.c Low sulphur fuel shall be used for vehicles and stationary engines and equipment, subject to engine compatibility (based on engine manufacturer specifications) wherever available.
- 4.1.4.d The sulphur content of fuel oil used by marine vessels shall meet a maximum sulphur content of 4.5% mass/mass (m/m) or 1.5% m/m if the vessel is required to do so by regulation. Barges and rigs on contracts less than twelve continuous months are excluded from this requirement.

4.1.5 Dust and Fugitive Air Emissions

- 4.1.5.a Visible dust emissions due to our activities beyond lease/property boundary shall be prevented and not cause impact on neighbouring people or property.
- 4.1.5.b Fugitive emissions shall be estimated and reported annually for each facility.

4.2 EFFLUENT DISCHARGES

4.2.1 Waste Water Discharges

- 4.2.1.a Process water discharges from offshore facilities shall be less than 30 (milligrams per Litre) mg/L hydrocarbons (15ppm from marine vessels and non process drainage).
- 4.2.1.b All waste water discharges from onshore facilities shall be less than 10mg/L hydrocarbons.

ENVIRONMENTAL PERFORMANCE STANDARDS
OPERATING STANDARD

- 4.2.1.c No effect concentration is to be achieved 95% of the time at 200 m from an offshore source, 50 m from a nearshore source and 100 m from a point source to surface waters. Temperature increase is to be less than 3°C above ambient, 95% of the time at 200 m from an offshore discharge source or 100 m from an onshore source. An alternative mixing zone may be established in consultation with the regulator.
- 4.2.1.d The waste water discharge chemical composition and toxicity shall be characterised at/prior to commencement of operations and retested every 3 years or more frequently if risk is identified.

4.2.2 Drilling Cuttings, Fluids and Additives

- 4.2.2.a Oil on cuttings shall not exceed 10% by weight for overboard disposal.
- 4.2.2.b Water Based Mud (WBM) shall be used as first preference in all cases. Where WBM cannot meet required specifications, Non Water Based Mud (NWBM) may be used following a business case deviation.
- 4.2.2.c Overboard disposal of NWBM is not permitted.

4.2.3 Chemical Use and Selection

- 4.2.3.a Chemicals shall be stored safely and handled to prevent the release to the environment.
- 4.2.3.b Facilities shall maintain a hazardous chemicals register, and ensure that Material Safety Data Sheets are available for chemicals at the site of use.
- 4.2.3.c Select chemicals with the lowest practicable environmental risks subject to technical and economic constraints.
- 4.2.3.d Facilities shall monitor all discharge streams at least annually.

4.3 WASTE TRANSPORT, STORAGE AND DISPOSAL

4.3.1 Waste Storage, Transport and Disposal

- 4.3.1.a Hazardous waste materials including Naturally Occurring Radioactive Material (NORM) shall be handled, stored and disposed of to prevent pollution or contamination of soil and water.
- 4.3.1.b Records of waste transport, treatment, recycling or disposal shall be maintained.
- 4.3.1.c Offshore waste shall not be disposed of at sea unless there is a specific regulatory approval or standard to do so. No waste (sewage or garbage) shall be disposed of within 3 nautical miles from the nearest land. Disposal of plastics at sea is prohibited.
- 4.3.1.d Waste contractors shall be audited to ensure they have the facilities and systems to be able dispose of the waste in an environmentally responsible manner.

4.4 CONTAMINATION

4.4.1 Onshore and Offshore Contamination

- 4.4.1.a Contamination of terrestrial, aquatic and marine environments shall be prevented. Contaminated sites shall be identified, and reported to the CEO annually and to regulatory agencies where required. Where mobile the contamination shall be monitored annually.
- 4.4.1.b Potential acquisitions shall be assessed for existing soil and groundwater contamination and potential liability.
- 4.4.1.c Prior to decommissioning, facilities or landholdings (either owned or occupied) will be assessed for contamination. Where contamination is identified, remediation shall be undertaken to minimise the liability and in line with local regulations.

ENVIRONMENTAL PERFORMANCE STANDARDS
OPERATING STANDARD**4.4.2 Loss of Containment**

- 4.4.2.a Facility design and procedures shall prevent spills (chemicals or hydrocarbons) beyond secondary containment.
- 4.4.2.b Loss of containment beyond primary containment shall be investigated to determine root causes and preventative actions reported into the Woodside incident database and to the regulator as required by local regulations.
- 4.4.2.c Product and chemical tank inventories shall be monitored to detect leakage.
- 4.4.2.d Oil and chemical spill contingency plans shall be in place. Plans shall be tested on a frequency reflecting spill risk assessment, and reviewed and updated at least every 3 years.

4.5 RESOURCE CONSUMPTION**4.5.1 Energy Efficiency / Fuel Use**

- 4.5.1.a Energy efficiency assessments of operating facilities shall be undertaken every 5 years to identify and implement improvements in the Business Unit improvement plan.
- 4.5.1.b Australian facilities with a current or forecast annual energy consumption of over 0.5 Petajoules (PJ) or 139,000 MegaWatts per hour (MWh) shall implement energy use improvement measures.

4.5.2 Water Consumption

- 4.5.2.a Design and operate facilities to minimise water consumption and to maximise water reuse and recycling.

4.6 ENVIRONMENTAL IMPACT ASSESSMENT**4.6.1 Environmental Impact Assessment**

- 4.6.1.a Environmental impact assessment shall be conducted for any new development or significant change to a facility requiring new regulatory improvement.
- 4.6.1.b An environmental baseline which defines biodiversity values and physical characteristics will be completed as part of each regulatory assessment.

4.7 BIODIVERSITY**4.7.1 Physical Impacts on Biodiversity**

- 4.7.1.a Facilities must be located, designed, constructed, operated and decommissioned to minimise impact on biodiversity and ecosystem function.
- 4.7.1.b Waste water discharges shall not cause pollution or adverse, irreversible impact on biodiversity values.
- 4.7.1.c Impacts of noise from marine seismic surveys shall be minimised. Seismic surveys shall follow the Australian regulatory guidelines to avoid any noticeable effect on biodiversity or ecosystems.

4.7.2 Invasive Species

- 4.7.2.a Quarantine controls shall be implemented for activities that pose a risk of introducing invasive species. Activities and sources may include; transportation of soil and aggregate, introduction of landscape plants, mobilisation of earth moving equipment, marine dredges, pipe lay vessels, drill rigs and all ballasted other marine vessels.

ENVIRONMENTAL PERFORMANCE STANDARDS
OPERATING STANDARD

- 4.7.2.b Marine vessel ballast water shall be managed to prevent introduction of invasive marine species.

4.8 DOCUMENTATION

4.8.1 Environmental Management Manual

- 4.8.1.a Where a document, management plan or register is required by local regulation or in a standard, the Environment Plan or an Environmental Management Manual shall be used to facilitate easy access and minimise the number of individual documents. Information that is not for public release should be kept in the internal Environmental Management Manual. Each Functional Division shall maintain an Environmental Management Manual which contains the registers and plans outlined in Appendix B.

4.8.2 Environmental Performance Scorecard

- 4.8.2.a A performance scorecard shall be established annually for each operating Business Unit which provides the current level of performance per facility and sets targets for improvement in line with legislation, these Standards and industry practice. Each operating Business Unit will have an improvement plan which includes actions to achieve these improvement targets.

ENVIRONMENTAL PERFORMANCE STANDARDS
OPERATING STANDARD

5. DEFINITIONS

Term	Explanation
APPEA	Australian Petroleum Production and Exploration Association Limited
CO ₂ -e	Carbon dioxide equivalent. Greenhouse gases converted to an equivalent mass of carbon dioxide using accepted units of global warming potential over a 100 year time horizon (<i>for the reference list of global warming potential values for various greenhouse gases see the Australian Greenhouse Office (http://www.greenhouse.gov.au/challenge/html/member-tools/factorsmethod.html#Appendix2).</i> Also see HSE- 29: Emissions Forecasting Methodology (http://sp.wow.woodside.com.au/hser/index.htm)
Contaminated Site	In relation to land, water or a site, having a substance present in or on that land, water or site at above background concentrations that presents, or has the potential to present, a risk of harm to human health, the environment or any environmental value (<i>source: WA Contaminated Sites Act 2003</i>).
Effluent	Unwanted liquid / sludge not in the same condition as the receiving environment.
Energy Efficiency	A ratio of energy consumption to an applicable output base value. i.e. Fuel consumption per unit of energy produced.
Environment	Surroundings in which an organisation operates, including air, water, land, natural resources, flora, fauna, humans, and their interrelation (<i>source: AS/NZS ISO 14001:2004 : Environmental management systems - Requirements with guidance for use</i>).
Environmental Aspect	Element of an organisation's activities, products or services that can interact with the environment (<i>source: AS/NZS ISO 14001:2004 : Environmental management systems - Requirements with guidance for use</i>).
Environmental Impact	Any change to the environment, whether adverse or beneficial, wholly or partially resulting from the organisation's activities, products or services. (ISO140001, 2006).
Environment Plan	An Environment Plan (EP) is an activity-specific document required under Australian regulations for offshore activities. The EP identifies environmental effects and provides proponent's commitments and procedures to manage or mitigate them. The plan facilitates the assessment process by providing sufficient information to determine the level of environmental risk and whether adequate measures are in place. The content and level of detail depends on the type of activity and the significance of any environmental aspects or effects.
Environmental Standards	Performance Standards and targets for acceptable environmental performance levels for Woodside activities
Environmental Performance	Measurable results of the environmental management process, related to an organisation's control of its environmental aspects, based on its environmental policy, objectives and targets (<i>source: AS/NZS ISO 14001:2004 : Environmental management systems - Requirements with guidance for use</i>).

ENVIRONMENTAL PERFORMANCE STANDARDS
OPERATING STANDARD

Term	Explanation
Facility/Asset	Any facility used for the extraction of oil/gas resources for the purpose of production. This definition excludes mobile offshore drilling units (MODUs), barges or any other vessels on short-term charter.
Fugitive emissions	Air pollutants released to the air other than those from stacks or vents; typically small releases from leaks in plant equipment such as valves, pump seals, flanges, sampling connections, etc. Fugitive emissions also include substances that enter the air without going through a smokestack, such as dust from soil erosion, rock crushing, construction, and building demolition.
Flaring	Gas flared, including pilot and purge gas, assist gas as well as planned and unplanned gas flaring.
Hazardous Chemicals	Chemicals or substances containing ingredients which meet any of the criteria for classification of hazardous substances as set in the 'Approved Criteria for Classifying Hazardous Substances' (<i>National Occupational Health and Safety Commission</i> ; http://www.nohsc.gov.au/pdf/Standards/approved_criteriaNOHSC1008_2004.pdf).
Low Sulphur Diesel	Diesel fuels with sulphur content of 500 mg/kg (or less).
Marginal Cost of Abatement	The carbon price that is required to achieve an incremental unit of greenhouse gas emissions reduction.
NO_x	Generic name for nitric oxide (NO) and nitrogen dioxide (NO ₂).
Nearshore	Where there is potential for impact to the shoreline, intertidal zone or a fringing reef environment
Performance Standard	A minimum standard of performance to be achieved or a minimum requirement to be met for significant environmental aspects
Sensitive Receptor	A sensitive receptor is a residential community, or workforce.
SO_x	Generic name for sulphur dioxide (SO ₂) and sulphur trioxide (SO ₃), usually expressed as SO ₂ - equivalent.
Venting	Planned or unplanned emissions to air from stacks or vents without combustion.
Waste	Chemicals, materials or items that have no further use to Woodside and must be transferred to a third party for reuse, recycling or disposal. This excludes routine operational discharges and emissions.
Waste Water Discharges	All liquid effluents inc. Produced Formation Water, Cooling Water, Sewage, Brine and Grey water

ENVIRONMENTAL PERFORMANCE STANDARDS
OPERATING STANDARD**APPENDIX A: REFERENCE STANDARDS**

Reference Standards	Application
Montreal Protocol	Reduce and eventually eliminate the emissions of man-made ozone depleting substances. This would apply to Woodside's use of any ODS (for example halons used in fire protection systems and as refrigerants).
ANZECC Water Quality Guidelines	Provides a framework for conserving ambient water quality in rivers, lakes, estuaries and marine waters. The guidelines form the central technical reference for the Australian National Water Management Strategy, which the Federal and all State and Territory governments have adopted for managing water quality.
Australian National Environment Protection Measure Ambient Air Quality standards	Protects against impacts to human health from air emissions in the area surrounding any facility. Specifically applies to areas where sensitive receptors are likely to be present.
Western Australian EPA Guidance Statement for Emissions of Oxides of Nitrogen from Gas Turbines No. 15, May 2000	Provides information which the EPA will consider when assessing proposals where NOx emissions from gas turbines, as an environmental pressure on air quality in the Perth metropolitan area and regional areas of Western Australia, are relevant environmental factors in an assessment. It takes into account: (a) protection of the environment as defined by the <i>Environmental Protection Act 1986 (WA)</i> with a focus on Emissions of Oxides of Nitrogen from Gas Turbines; (b) the factor of NOx emissions from gas turbines as an environmental pressure on air quality in the Perth metropolitan area and regional areas of Western Australia.
MARPOL Annex VI, Prevention of Air Pollution from Ships http://www.imo.org/Conventions/conventions.asp?doc_id=678&topic_id=258	Sets limits on sulphur oxide and nitrogen oxide emissions from ship exhausts and prohibit deliberate emissions of ozone depleting substances.
MARPOL Annex 1 Prevention of Pollution by Oil, Ch 7 reg 39	Regulates pollution of oil from ships to protect marine life and ecosystem function from discharge of hydrocarbons. Ch7 reg 39 specifically applies to FPSOS and FSUs.
Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)	Mixing zone requirements.
MARPOL Annex IV and V http://www.imo.org/Conventions/conventions.asp?doc_id=678&topic_id=258	Prevention of Pollution by Sewage from Ships (IV) and Prevention of Pollution by Garbage from Ships (V).
"Guidelines for Naturally Occurring Radioactive Material, Australian Petroleum Production and Exploration Association Limited, Canberra" http://www.appea.com.au/content/pdfs/docs_xls/PolicyIndustryIssues/normguide.pdf	Provides guidance on NORM monitoring, management of occupational radiation exposures and decision-making regarding NORM waste disposal.

APPROVED

ENVIRONMENTAL PERFORMANCE STANDARDS
OPERATING STANDARD

Reference Standards	Application
Energy Efficiency Opportunities Act 2006	Improve the identification and evaluation of energy efficiency opportunities by large energy using businesses and, as a result, encourage implementation of cost effective energy efficiency opportunities.
Australian Environment Protection and Biodiversity Conservation Act Policy Statement 2.1 Industry Guidelines for the interaction of seismic exploration and whales	Provides practical standards to minimise the risk of injury or biological consequences to whales in the vicinity of seismic survey operations.
Global Flaring Reduction Initiative	Facilitates and supports national efforts for increasing the use of associated gas, with a view to improving energy efficiency, increasing access to energy, and contributing to climate change mitigation.
IPIECA Guidance	Provide guidance regarding environmental and social issues pertaining to the oil and gas industry. Guidance aims to promote cost-effective, practical, socially and economically acceptable solutions.
Environmental, Health, and Safety Guidelines for Liquefied Natural Gas (LNG) Facilities http://www.ifc.org/ifcext/sustainability.nsf/AttachmentsByTitle/gui_EHSGuidelines2007_LNG/\$FILE/Final+-+LNG.pdf	Provides guidance across all environmental, health and safety aspects for operation of LNG facilities.
Environmental, Health, and Safety Guidelines for Offshore Oil and Gas Development http://www.ifc.org/ifcext/sustainability.nsf/AttachmentsByTitle/gui_EHSGuidelines2007_OffshoreOilandGas/\$FILE/Final+-+Offshore+Oil+and+Gas+Development.pdf	Provides guidance across all environmental, health and safety aspects for operation of offshore oil and gas facilities.
Environmental, Health, and Safety Guidelines for Onshore Oil and Gas Development http://www.ifc.org/ifcext/sustainability.nsf/AttachmentsByTitle/gui_EHSGuidelines2007_OnshoreOilandGas/\$FILE/Final+-+Onshore+Oil+and+Gas+Development.pdf	Provides guidance across all environmental, health and safety aspects for operation of onshore oil and gas facilities.

APPROVED

**APPENDIX B: REGISTERS AND PLANS TO BE INCLUDED IN THE
ENVIRONMENTAL MANAGEMENT MANUAL**

Requirement	Required under regulation
Environmental Aspect Register	Y
Environmental Improvement Plan	N
GHG Management Plan	Y
Flare Plan	N
Vent Plan	Y
Register of ODS	Y
Air Emissions Inventory	Y
Fugitive Emissions Baseline	Y
Hazchem register	Y
MSDS Sheet	Y
Waste Management Plan	N
Waste transport records	Y
Contamination register	Y
Contamination baseline survey	Y
Oil Spill Contingency Plan	Y
Energy Efficiency Assessment	Y
Energy Efficiency Opportunities Register	Y
Energy Management Plan	Y
Monitoring program for biodiversity	Y
Baseline study for introduced species	Y

CONTROLLED DOCUMENT WMS Operating Standard ENVIRONMENTAL PERFORMANCE STANDARDS	
--	---

Controlled Ref No: WM1050SH5099397	Revision: 0
---	--------------------

Name	Signature	Date
Prepared by: Deborah Peach – Senior Environmental Adviser	See Controlpoint records	20/10/2009
Approved by: Vanessa Guthrie – VP Sustainable Development	See Controlpoint records	20/10/2009
Custodian: Gordon Baird – GM Environment	See Controlpoint records	20/10/2009
Endorsement: Operating Standards require the endorsement of the Operating Standards Committee. Business Operating Committee endorsement may be required for certain Operating Standards.		
Operating Standard Committee (OSC) Chairperson		
Business Operating Committee (BopCom) Chairperson		

REVISION HISTORY				
Revision	Description	Date	Prepared by	Approved by
0	Issued for Use	20/10/2009	G. Baird	V. Guthrie

INFORMATION SECURITY CONFIDENTIALITY CLASSIFICATION (Check one box only)	
<input type="checkbox"/>	Unclassified (Shared without Restrictions)
<input checked="" type="checkbox"/>	Restricted (Freely Shared within Woodside and Associated Companies)
<input type="checkbox"/>	Confidential (Shared With Selected Personnel)
<input type="checkbox"/>	Most Confidential (Strict Need-to-Know Basis)

REVIEW STATUS (Check one box only)	
<input checked="" type="checkbox"/>	Review on: 1/7/2010 (Annual Review)
<input type="checkbox"/>	Review Not Required

PREPARED (Check one box only)	
<input checked="" type="checkbox"/>	By WEL
<input type="checkbox"/>	For WEL Under PO/Contract No:

APPROVED

OPERATIONS / PROJECTS USE ONLY	
Operating Facility:	N/A
Key TAG No's:	N/A

DOCUMENT DISTRIBUTION			
Copy No.	Full Name / External Organisation Name (if applicable) (Show Username (WOPID) to differentiate between persons with identical names).	Hard Copy	Electronic Notification
00	Document Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
01	Operating Standards 'Title Library'	<input type="checkbox"/>	<input checked="" type="checkbox"/>
02	Woodside Environment Function ('??environment' email distribution)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
03	Rebecca Sims (wopo6s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
04		<input type="checkbox"/>	<input type="checkbox"/>
05		<input type="checkbox"/>	<input type="checkbox"/>
06		<input type="checkbox"/>	<input type="checkbox"/>
07		<input type="checkbox"/>	<input type="checkbox"/>
08		<input type="checkbox"/>	<input type="checkbox"/>
09		<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>

APPROVED