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TABLE OF CONTENTS

SCOPE3

PURPOSE3

REFERENCE DOCUMENTS3

ABBREVIATIONS4

ROLES & RESPONSIBILITIES4

HSSEQ POLICY5

AIMS5

OBJECTIVE5

ENVIRONMENTAL OBJECTIVES6

GENERAL RESPONSIBILITIES6

COMMUNICATION OF ENVIRONMENTAL INTERFACE ARRANGEMENTS6

OPERATIONAL SUPPORT6

ENVIRONMENTAL FRAMEWORK7

HEALTH, SAFETY & ENVIRONMENTAL MEETINGS7

PORT USER GROUP7

GOVERNMENT AGENCIES8

LOCAL ENVIRONMENT8

ENVIRONMENTAL ASPECTS & IMPACTS REGISTER9

INCIDENT REPORTING9

ENVIRONMENTAL DUTIES10

EMERGENCY PREPAREDNESS, RESPONSE & RECOVERY10

INCIDENT RECORDING & INVESTIGATION10

MARINE POLLUTANTS10

OIL SPILLS11

ENVIRONMENTAL PLAN (DMSB)

PLN-AUS-HSSEQ-019

SCOPE

This plan sets out the objectives and targets for responsible environmental management of the Darwin Marine Supply Base. The Environmental Management Plan sets the framework for operating procedures, monitoring, and auditing environmental activities within the Marine Supply Base. The intent of the Environmental Management Plan is that it is subject to regular review and continual improvement. The Environmental Management Plan is to be used as an ongoing guide for environmental planning and management within the Darwin Marine Supply Base.

PURPOSE

The Environmental Management Plan forms the basis for environmental performance within the Darwin Marine Supply Base. ASCO is committed to high-quality performance and management, ASCO Australia recognises the environmental and economic importance of operating in an environmentally sustainable and responsible manner and ensuring a high level of environmental performance and is committed to achieving this through continual improvement of its environmental management system.

This Environmental Management Plan has been prepared specifically for the Darwin Marine Supply Base, to ensure all activities and undertakings are continually monitored and assessed to ensure environmental compliance is assured. This plan sets out the objectives and targets for responsible environmental management of the Darwin Marine Supply Base. The Environmental Management Plan sets the framework for operating procedures, monitoring, and auditing environmental activities within the Darwin Marine Supply Base. The intent of the Environmental Management Plan is that it is subject to regular review and continual improvement. The Environmental Management Plan is to be used as an ongoing guide for environmental planning and management within the Darwin Marine Supply Base.

REFERENCE DOCUMENTS

DOCUMENT TITLE	INTERNAL/EXTERNAL
Emergency Response Plan (DMSB)	Internal
Environmental Aspects and Impacts	Internal
Flora & Fauna Management Plan (DMSB)	Internal
Hazard Identification and Control	Internal
Marine Act	External
Marine Pollution Act and Regulations	External
Northern Territory of Australia - Workplace Health and Safety Act and Regulations	External
Ports Management Act and Regulations	External

PLAN

ENVIRONMENTAL PLAN (DMSB)

PLN-AUS-HSSEQ-019



ABBREVIATIONS

ABBREVIATION	MEANING
DMSB	Darwin Marine Supply Base
DP	Darwin Port
EMP	Environmental Management Plan
Facility Users	A third-party company working within the DMSB under access/Licence agreement with ASCO
Hazard	A situation with potential for human injury, damage to property or the environment, discharge of potential pollutants into the environment or some combination of the three
HSSEQ	Health, Safety, Security, Environment & Quality
Investigation	A systematic examination of an event and its cause/contributing factors to persons, plant, material, or the environment
Risk	The effect of uncertainty on objects. For Safety, this is often measured by the likelihood and consequences as explained in AS/NZS 31000:2009
Risk Control	Risk control is the process used to identify all practicable measures for eliminating or reducing the likelihood of injury, illness, or disease in the workplace, to implement the measures and to continually review the measures in order to ensure their effectiveness.

ROLES & RESPONSIBILITIES

ROLE	RESPONSIBILITIES
DMSB Manager	Safety critical role; has overall responsibility and accountability for overseeing the delivery of safe and efficient operations at the DMSB To monitor the activities of Facilities Users to ensure compliance with this plan.
DMSB Coordinator & Facility Coordinator	Ensure competent advice and support is provided to Facility Users in meeting the requirements of this plan. To monitor controls in relation to this plan ensuring all Facility Users are compliant To promptly report all non-conformances to BU Manager and HSSEQ Department.

HSSEQ	Review HSSEQ trends and analysis and develop risk mitigation strategies Support Supply Base Manager and Supervisors to conduct work in a safe and efficient manner Approve TBRA's within level of authority Ensure compliance with this EMP Provide technical HSSEQ support to DMSB
All Personnel	All ASCO and sub-contractor personnel must ensure that they understand and strictly adhere to all ASCO regulations, standards, and guidelines All individuals operating under ASCO management are to challenge and STOP any activity or condition, which they believe may have a negative effect on their welfare or that of others To not undertake work for which they are not trained, competent or inducted. ASCO Australia activities within the Darwin Marine Supply Base are limited in terms of their potential environmental impact. Most of the emissions and potential pollutants will be generated from the operations of other DMSB users. ASCO will ensure that it continually monitors and consults with DMSB users to ensure that their environmental management practices are aligned with the ASCO's Environmental Management Plan

HSSEQ POLICY

ASCO has an established HSSEQ Policy communicating management commitment to the protection of employees, others involved in its operations, the public, and the balanced environmental and economic needs of the communities in which the ASCO operates. The Policy sets out the aims of ASCO in key areas of HSSEQ Management and highlights the ASCO's commitment to continual efforts to identify and manage safety and health risks and to improve environmental performance. ASCO will ensure that the HSSEQ Policy Statement is always available on-site, is communicated to all new personnel and sub-contractors and is displayed on HSSEQ notice boards.

AIMS

AIMS incorporates all business functions, including Health and Safety, Quality Assurance and Environmental Protection and is internationally accredited to ISO and WHS standards. AIMS uses risk-based quality management techniques to ensure compliance without the need for specific go/no go decision trees. The quality surveillance of AIMS is done through a series of meetings, KPI's, internal and external audits, and agreed corrective actions monitored through the service improvement document (SID) process.

OBJECTIVE

DMSB has established this Environmental Plan to show our commitment to all environmental matters within the scope of all Darwin Marine Supply Base activities and to communicate environmental management for the protection of employees, others involved in its operations, the public, and the balanced environmental and economic needs of the communities in which the Company operates. The plan sets out the aims of ASCO Australia in key areas of environmental management and highlights the Company's commitment to continue to identify and manage and communicate environmental performance and review.

ENVIRONMENTAL PLAN (DMSB)

PLN-AUS-HSSEQ-019

ENVIRONMENTAL OBJECTIVES

Execution of the ASCO Australia HSSEQ Management System AIMS (ASCO INTERGRATED MANAGEMENT SYSTEM) and this document is intended to result in meeting the following objectives:

- Requirements from relevant Environment laws, Regulations and Approved Codes of Practice are met
- Provisions are made for employee involvement through Safety Representatives and Safety consultation
- HSE activities are documented, and they address all phases of the activity within the DMSB
- Hazards and associated control measures are communicated prior to conducting work and when changes occur
- Standards for safe and environmentally sound designs and performance of work are established and followed. Deviations from or changes to standards are controlled
- Third Party Contractors manage environment systematically and meet or exceed standards of performance and competence set by ASCO Australia
- Adequate emergency response arrangements are in place, co-ordinated between ASCO Australia and DP, communicated and supported by a system of drills and exercises
- Performance of the work is actively monitored and audited to ensure environmental compliance
- Incidents are reported, investigated, and analysed and action is taken as needed to prevent recurrence. Appropriate follow-up will be provided to injured personnel to affect successful and rapid recovery. All investigation details and analysis will be available on request.

GENERAL RESPONSIBILITIES

DMSB Management has responsibility to ensure the environmental management systems are integrated based on the needs of the activities conducted within the DMSB. ASCO Australia will have primacy to establish interface procedures as may be needed to address environmental requirements involved in DMSB activities. ASCO Australia understands the duty to co-operate with the port users and will assist in fulfilling the requirements of applicable regulations in meeting objectives.

COMMUNICATION OF ENVIRONMENTAL INTERFACE ARRANGEMENTS

As part of the DMSB management commitment and reporting structure ASCO will communicate interface arrangements. As a minimum, management team will communicate all environmental interface arrangements with Darwin Port and stakeholders. ASCO Australia shall ensure that changes to the relevant policies, standards and procedures are made available to DP. All site modifications will be carried out in accordance with the ASCO GOP-HSSEQ-036 Management of Change Procedure.

OPERATIONAL SUPPORT

ASCO confirm that in carrying works within the Darwin Marine Supply Base, adequate support is available to safely perform these services, ensuring protection of the environment, as documented within the HSSEQ management system.

ENVIRONMENTAL FRAMEWORK

ASCO Integrated Management System (AIMS) framework will be utilised for the DMSB to ensure environmental compliance:

- Management of Change - This procedure defines the requirements and process to manage change, required in order to minimise the introduction of additional risk
- Planned Inspections - The following procedure and process is to facilitate the elimination of potential causes of non-conformance
- Hazard Identification and Control - This procedure describes and defines the many and varied processes by which the organisation identifies and controls hazards arising from its undertakings
- Document Control and Document Control and Control of Records - The purpose of this procedure is to describe the procedure for the control of all documentation relating to the Darwin Marine Supply Base
- Emergency Response Planning - This procedure provides ASCO Australia with a framework to establish and maintain procedures to identify the potential for and to respond to accidents and emergencies, and for preventing and mitigating the environmental impacts that may be associated with them
- Monitoring and Measurement - The purpose of this procedure is to ensure that effective monitoring and measurement of Darwin Marine Supply Base activities that may have a significant impact on the environment are undertaken on a regular basis
- Environmental Review - All new ASCO premises will undergo an initial environmental review to include site history, legislative requirements, aspects and impacts identification, emergency response requirements to ensure environmental compliance
- Environmental Aspects and Impacts Register - This procedure pertains to the preparations of the ASCO Australia DMSB Aspects and impacts Environmental Register that ASCO Australia can control or influence
- Verification - To ensure all areas of ASCO Australia complies and evaluates periodically compliance to their legal requirements
- Internal Audit - This procedure is to ensure that the ASCO Integrated Management System (AIMS) is audited on a regular basis to ensure compliance with ISO 14001
- External Audit - This procedure is to ensure that vendors of goods and services are chosen for their ability to supply requirements which conforms to ASCO environmental standards.

HEALTH, SAFETY & ENVIRONMENTAL MEETINGS

The DMSB has the Health, Safety and Environment meetings to ensure ASCO's commitment to providing and maintaining a safe, healthy, and environmentally aware workforce. DMSB will also take part in Darwin Port health and safety briefings to ensure continual coordination and cooperation between both parties in for all activities within the Darwin Marine Supply Base and port areas.

PORT USER GROUP

The Port User Group is a body established to provide a communication and discussion forum for parties whose operations impact upon the Port of Darwin region ASCO Australia is committed to attending and contributing to this forum.

GOVERNMENT AGENCIES**Australian Maritime Safety Authority**

The Australian Maritime Safety Authority Act 1990 (Commonwealth) sets out the functions of the Australian Maritime Safety Authority (AMSA). Responsibilities include the protection of the marine environment from ship-sourced pollution. AMSA also has responsibilities under a variety of legislation relating to protection of the marine environment, including the Protection of the Sea (Prevention of Pollution from Ships) Act 1983 (Commonwealth). AMSA administers the National Plan to Combat Pollution of the Sea by Oil and Other Noxious and Hazardous Substances and is responsible for coordinating, investigating, and cleaning up oil spills of national significance. Under 'Port State Control'.

AMSA conducts a program of inspections of foreign ships entering Australian ports based on their risk profile. These inspections are carried out to ensure that ships comply with the relevant requirements of the International Maritime Organisation (IMO), including MARPOL 73/78. Should a ship, the qualifications of its crew or shipboard safety management system, be found to not comply with the appropriate requirements, AMSA may require corrective action which can include detention of the ship until satisfactory repairs are carried out, or remedial action is taken.

Australian Biosecurity

Australian Biosecurity is the lead federal government agency providing quarantine inspection services for the arrival of international passengers, cargo, mail, animals, plants and their products into Australia. The Department are responsible for the management of ballast water issues, including monitoring of compliance of shipping with the Australian Ballast Water Management Requirements at each first port of call in Australia. These requirements are designed to reduce the risk of introduced harmful aquatic organisms into Australia's marine environment through ship's ballast water.

Australian Border Force

The Australian Border Force manage the security and integrity of Australia's borders. The service works closely with other government and international agencies, in particular the Australian Federal Police, Biosecurity, the Department of Immigration and Multicultural and Indigenous Affairs and the Department of Defence, to detect and deter unlawful movement of goods and people across the border.

LOCAL ENVIRONMENT**Weather**

The Darwin region has a monsoonal climate, with a wet season lasting from October to April and the remainder of the year referred to as the dry season. During the transition from the dry season and throughout the wet season Darwin and surrounding areas experience many isolated, intense, electrical, and high rainfall storms. Temperatures tend to remain within a relatively narrow range throughout the year. Wind direction during the wet season is predominantly from the west and northwest and during the dry season the wind direction is predominantly from the east and southeast. Tropical cyclones (low pressure systems) commonly form during the wet season. The timings of cyclones can link with high tides to develop storm surges along the coastline

Surface Water

The Darwin Marine Supply Base has a storm water system designed and constructed to meet requirements and function ability which includes:

- An underground pipe system designed for the minor events up to 50% of annual exceedance probability
- A treatment system to remove 70% of suspended solids from the overall storm water discharge on site.

The storm water system is engineered to provide a level of service both in terms of collection and treatment that exceeds that of most industrial and urban developments within the Northern Territory.

Marine Water

Water quality in Darwin Harbour is dependent on tides, seasons, and location within the harbour. The marine waters around the DMSB, in common with most other estuarine systems, are subject to significant seasonal fluctuations in salinity and temperature. Additionally, run-off containing suspended particulate matter, inorganic and organic nutrients and a wide range of other constituents enter the estuary from the surrounding developed and undeveloped sections of the catchment area.

Flora & Fauna

The closest national park to the East Arm Wharf is Charles Darwin National Park, which is located on the coastline between the Central Business District of Darwin and East Arm Wharf; refer to ASCO Flora and Fauna Management Plan (DMSB) for further information.

ENVIRONMENTAL ASPECTS & IMPACTS REGISTER

An Environmental aspects and impacts register has been prepared to include aspects and impacts related to DMSB Activities. Environmental concerns arising due to Darwin Marine Supply Base activities that can interact with the local environment have been assessed utilising the ASCO HSSEQ aspects and impacts procedure to ensure appropriate controls are established. An impact refers to any change to the physical environment, whether adverse or beneficial, wholly, or partially resulting from a DMSB activity.

INCIDENT REPORTING

For work conducted at ASCO facilities, ASCO shall, as soon as reasonably possible, report internally any incident if the incident has resulted in but is not limited to:

- Any HSSEQ incident or high potential incident with potential for significant adverse reaction from Stakeholders, government authorities, media, or the general public.
- Loss of material or equipment.
- Chemical spills and releases to water or atmosphere
- All incidents are fully investigated and will be led by HSSEQ department utilising ASCO procedures including but not limited to incident reporting and investigation and HSSEQ incident report approval and distribution.
- All Stakeholders, Client and Third parties will be invited to contribute where necessary to investigation process and all outcomes are shared for lateral learning in the form of lessons learned and safety alerts communications through the ASCO group utilising the LiveSafe communications process.
- All investigations and any corrective actions from investigations are closed in line with allocated timelines (30 days).
- All people within the Northern Territory are subject to the mandatory reporting requirements of Section 14 of the Waste Management and Pollution Control Act.
- Where this applies, dependent on severity ASCO management team will notify Northern Territory Environmental Protection authority in accordance with regulatory guidelines, Darwin Port will also be notified in accordance with emergency reporting requirements.

ENVIRONMENTAL DUTIES

ASCO will take all measures that are reasonable and practical to:

- Prevent and minimise pollution to the local environment
- Reduce and minimise waste.
- ASCO will as soon as practical (and in any case within 24 hours) notify NT EPA of incidents causing or threatening to cause pollution within the DMSB.

EMERGENCY PREPAREDNESS, RESPONSE & RECOVERY

Personnel health and safety is ASCO's primary concern in all incidents. All DMSB emergency response plans must incorporate all possible emergency situations which may result in an environmental impact within the Marine Supply Base or adjoining land users.

Emergency plans must include as a minimum:

- Detail requirements for co-ordination of resources to ensure effective control and clean-up after accident or emergency situations
- Establish a framework to be used for the co-ordination of Darwin Marine Supply Base Personnel, effective communication technique for local Government Departments, adjoining land users and other appropriate organisations during and after an emergency situation.
- Ensure Emergency Response Plan (DMSB) incorporates periodic testing and review to ensure compliance to current legislation requirements.
- The ASCO DMSB management team is responsible for ensuring that appropriate emergency preparedness and response plans are developed, implemented, tested, reviewed and improved.

INCIDENT RECORDING & INVESTIGATION

The aim of the ASCO LiveSafe Database is to ensure that all incidents including environmental are promptly reported, documented, assessed and recorded in LiveSafe database. All accidents and emergency incidents will be reported and investigated utilising the ASCO LiveSafe Database, to ensure suitable investigation, tracking of recommendations and outcomes and suitable retention. DMSB Management group are responsible for ensuring that environmental incidents are reported to the Darwin port Organisation and Harbour Control, and dependent on severity local environmental government agency.

The DMSB Manager is accountable for assigning authority to employees responsible for ensuring that the appropriate authorities are informed of any emergency incidents in accordance with legislative requirements. Environmental incidents and complaints are to be managed and investigated in accordance with ASCO HSSEQ Investigation reporting and investigation and incident report distribution and approval procedures and distributed accordingly to local partners and adjoining land user for feedback and lateral learning.

These ASCO HSSEQ procedures provide definitions of environmental Incidents and identify notification, response, and reporting requirements to ensure suitable and sufficient investigation and recommended remedial actions are followed to completion. Incident reporting investigations and corrective actions are collated within the ASCO LiveSafe database and used with a view to continuous improvement.

MARINE POLLUTANTS

Suspected marine pollution incidents must be reported to the Marine Safety Branch of the Department of Planning, Logistics, and Infrastructure. This should also be raised immediately with Darwin Port and Harbour control.

OIL SPILLS

Oil spills to marine waters are regulated under the Marine Pollution Act (NT) by the Marine Safety Branch of the Northern Territory Department of Planning and Infrastructure. This should also be raised immediately with Darwin Port and Harbour Control in line with documented reporting structure as mentioned within Managing risk and emergencies section of the document.

Oil spills within the Marine Supply Base are regulated by the Department of Natural Resources, Environment, the Arts and Sport, under the Waste Management and Pollution Control Act all spills to land within the DMSB will follow direction and guidelines as per the DMSB Spill Response Management Plan. The Australian Maritime Safety Authority manages the National Marine Chemical Spill Contingency Plan. All tenants and operators on Darwin Port, and operators within Marine Supply Base area have a responsibility to report environment incidents.