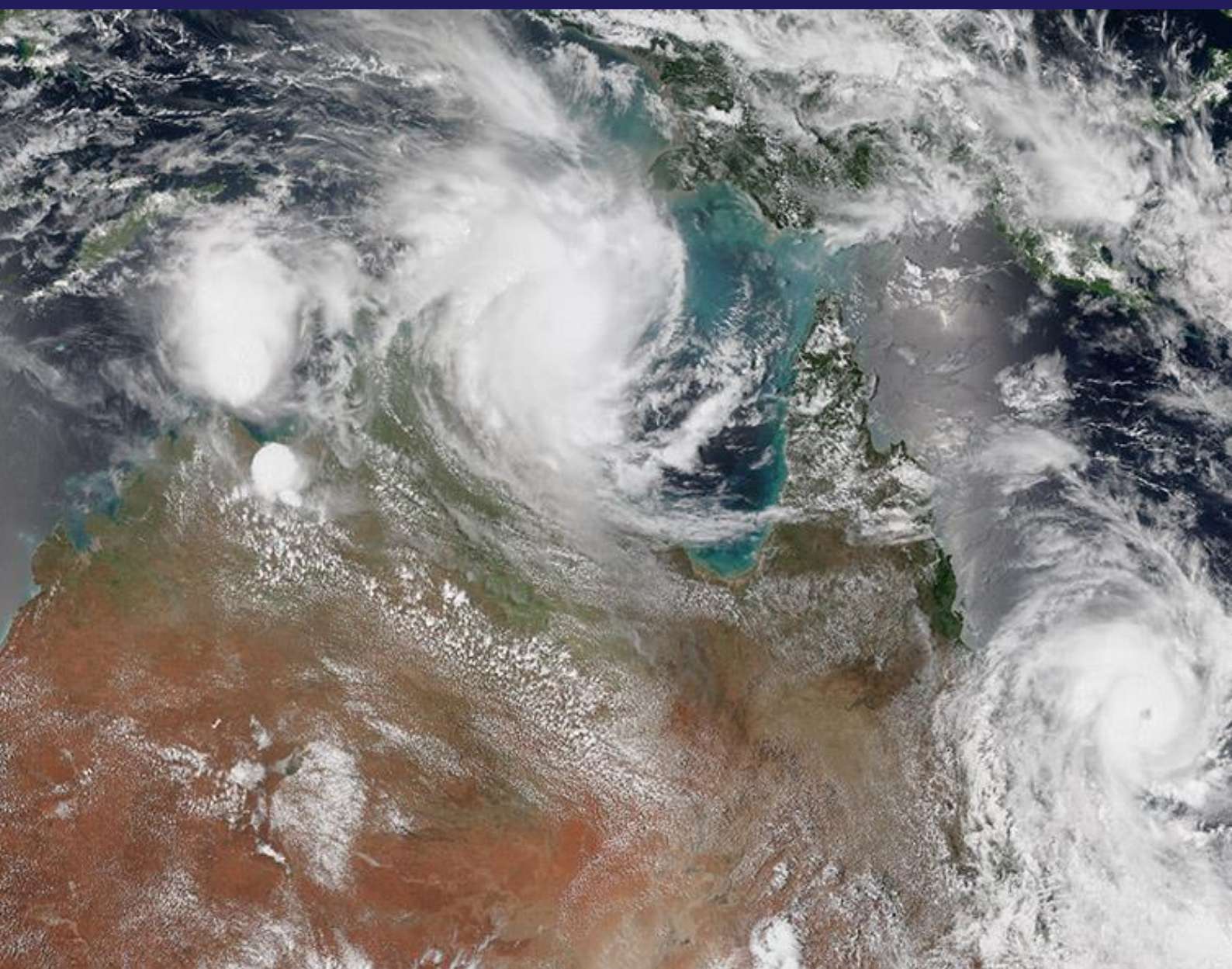





# CYCLONE PLAN

**2025-2026**

OPS-LEG-10  
General Manager, Operations



## DARWIN PORT – CYCLONE PLAN 2025-2026 SUMMARY

STAGE	DESCRIPTION	DP ACTIONS	PORT STATUS
Pre-season	Preparation for forthcoming Cyclone Season	Cyclone Plan and Standard Operating Procedures reviewed and updated. Port Users informed of cyclone precautions. Revised Cyclone Plan distributed to staff and stakeholders.	Open
Stage 1 	Advice	Actions as per Stage One requirements in Cyclone Plan. Work Instructions completed by designated staff members. Ships placed on four hours' notice of readiness.	Open  Initial planning for escalation to Stage 2
Stage 2 	Watch and Act	Actions as per Stage Two requirements in Cyclone Plan. Key staff report to designated work areas. Work Instructions completed by designated staff members. Ships placed on one hours' notice of readiness. Vessels may leave of their own accord.	Open but under review  GMO may action procedure to close the Port of Darwin
Stage 3 	Emergency Warning	Actions as per Stage Three requirements in Cyclone Plan. Work Instructions completed by designated staff members. All equipment secured. Essential service vessels taken to designated cyclone refuges. Vessels to leave port or proceed to designated cyclone moorings or refuges. All staff leave worksite and take shelter if directed by the CEO. Harbour Control services suspended if the Port of Darwin is closed.	GMO will action procedure to close the Port of Darwin if the risk to people, property and the environment justifies closure.  Key factors are severity and area of impact.
	Cyclone past Darwin	Key personnel report to allocated work areas. Preparation for declaration of all clear. Plan for opening of Port agreed and communicated to stakeholders.	Port open or closed status under review
Post Cyclone	Initial assessment	All staff report to work once it is safe to do so. Damage and Port of Darwin assessment commenced.	Open with caution
	Post Cyclone Recovery	Staff availability confirmed. Communication systems re-established. Equipment damage reports completed and damage mitigation actioned.	Open with caution
	Stand Down	Cyclone damage mitigation completed. Debrief of cyclone response. Cyclone Plan updated where necessary.	Open

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## INTRODUCTION

The Darwin Port Cyclone Plan 2025-2026 (Cyclone Plan) sets out Darwin Port Operations Pty Ltd (DP) authorities and responsibilities for the management of the harbour infrastructure, vessels in the harbour, its tenants, and staff during a cyclone event.

The Cyclone Plan sets out DP's authorities and responsibilities for the management of the harbour infrastructure, vessels in the harbour, its tenants, and staff during a cyclone event.

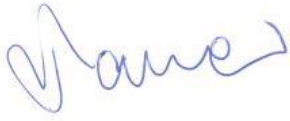
The objectives of the Cyclone Plan are to:

- Minimise risk to life and property
- Minimise the risk of damage to the Port of Darwin infrastructure
- Optimise the use of Darwin Harbour cyclone refuge areas
- Contribute effectively to the Northern Territory response to a cyclone event

This Cyclone Plan has been developed in consideration of the [Territory Emergency Plan](#).

## ENDORSEMENT AND APPROVAL

The Darwin Port Cyclone Plan 2025-2026 is endorsed by:



**General Manager Operations**  
**DAVID POWER**

**Date: 30 October 2025**

The Darwin Port Cyclone Plan 2025-2026 is approved by:



**Chief Executive Officer**  
**PETER DUMMETT**

**Date: 30 October 2025**

## DOCUMENT CONTROL

The Cyclone Plan is a controlled document.

Should the reader become aware of any inaccuracies, corrections or changes that are required, they should photocopy this page and the relevant page(s) from the Plan that require changes, note the changes and e-mail to:

General Manager Operations, Darwin Port

Email: [david.power@darwinport.com.au](mailto:david.power@darwinport.com.au)

Name: .....

Position: .....

Organisation: .....

Document No: .....

Phone: .....

Email: .....



## VERSION CONTROL

Version	Date	Position	Name	Reason for Amendment
9.0	30/10/19	CEO	Darren Lambourn	Approval
9.1	14/08/20	SMMS	Gary Bawden	2020/21 Review and update
9.2	14/08/20	GMO	Ian Niblock	Elaborate cyclone operations considerations and communications
10.0	03/11/20	CEO	Darren Lambourn	Approval
10.1	14/10/21	GMO	Ian Niblock	Enhancements from annual Stakeholder exercise
10.2	17/11/21	GMO	Ian Niblock	Feedback from Leadership Group review
11.0	24/11/21	CEO	Darren Lambourn	Approval
11.1	25/08/22	Admin	Annah Stacpoole	Contacts review
11.2	14/09/22	GMO	Ian Niblock	Review plan and update DP org structure and cyclone categories
11.3	24/10/22	GMO	Ian Niblock	Incorporate amendments from annual exercises
11.4	26/10/22	GMO	Ian Niblock	Endorse cyclone plan for CEO approval
12.0	26/10/22	CEO	Peter Dummett	Approval
12.1	29/09/23	GMO	Ian Niblock	Review plan and update DP org structure and cyclone outlook information
12.2	06/10/23	GMO	Ian Niblock	Amended cyclone stages to three from five to align with NTES newly introduced three step early warning system
13.0	26/09/24	GMO	David Power	Review plan and update DP org structure and cyclone outlook information and change in Government information
14.0	28/09/25	GMO	David Power	Updated with new Landside restructure, implementation of the new ICIMP, ref to Shiplift and annual review.

## DISTRIBUTION

An electronic link will be sent to all stakeholders identified in this document before the start of the cyclone season.

The Cyclone Plan is available to download from the Darwin Port website:

<https://http://www.darwinport.com.au//facilities-services/emergency-cyclone-plans>



**GLOSSARY**

BOM	Bureau of Meteorology
CDC	Counter Disaster Council
CEO	Chief Executive Officer
CEO EA	Executive Assistant to the Chief Executive Officer
CFOC	Cruise Facility Operations Coordinator
DAFF	Department of Agriculture Fisheries and Forestry
DCM	Department of the Chief Minister
DLI	Department of Logistics and Infrastructure
DLNG	Darwin LNG
DP	Darwin Port
EAMO	East Arm Main Office
EAW	East Arm Wharf
EAWG	East Arm Wharf Gatehouse
EAWW	East Arm Wharf Workshop
EM	Environmental Manager
FHW	Fort Hill Wharf
GMS&G	General Manager Strategy & Growth
GML&G	General Manager Legal & Governance
GMO	General Manager Operations
HCC	Harbour Control Centre
HCO	Harbour Control Officer
HTECH	Head of Technology & Systems
IC	Incident Controller
ICIMP	Integrated Critical Incident Management Plan
ICIMT	Integrated Critical Incident Management Team
ICT	Information & Communications Technology
ILNG	INPEX LNG and INPEX LPG and Condensate
IMT IC	Incident Management Team - Incident Controller
LNGC	Liquified Natural Gas Carrier
MM	Manager Maintenance
MMP	Manager Marine Pilots
MPL	Manager Port Logistics
MPS	Manager Port Security
MSG	Maritime Security Guard
MWS	Manager Wharf Services
NTES	NT Emergency Services
NTFES	NT Fire and Emergency Services
NTG	Northern Territory Government
NTPOL	Northern Territory Police
OOW	Officer of the Watch (Ships Officer)
PB	Pilot Boats
PBM	Pilot Boat Master
PE	Port Engineer
PLO	Port Logistics Officer
PMO	Port Management Officer
RHM	Regional Harbourmaster
SBA	Small Boat Anchorage
SHW	Stokes Hill Wharf
SMLO&S	Senior Manager Landside Operations & Security
SMM&E	Senior Manager Maintenance & Engineering
SMMO	Senior Manager Marine Operations
SMT&P	Senior Manager Trade and Property
SMWHS	Senior Manager Work Health and Safety

SPVM	Senior Pilot Vessel Master
TRS	Tropical Revolving Storm
WS	Wharf Services
WSS	Wharf Services Supervisor
WHSPL	Work Health Safety & Partnership Lead

## TROPICAL CYCLONE SEASON

The official tropical cyclone season for Darwin and the Northern Territory commences on 1 November and concludes on 30 April annually. However, cyclones have been known to occur outside of the official season.

Before a tropical cyclone forms it is difficult to predict its potential strength and path, including whether it will make landfall. Along the north coast of Australia more than half of the cyclones impact the coast.

## SEVERE TROPICAL THUNDERSTORMS

The tropical cyclone season in Northern Australia is also known as the wet season, which has its own distinctive tropical climate, quite different from what is to be experienced further south. Similarly, the types of violent thunderstorms that occur during the wet season can have different characteristics to those typical of southern and central Australia.

The main severe weather types associated with thunderstorms in the tropics are damaging wind and heavy rainfall. The wind gusts are "straight line gusts", that is, not associated with the rotating winds within a low-pressure system, but due to the outflow from the downdraught of a thunderstorm as the air hits the ground and spreads out. The name given to an intense thunderstorm downdraught concentrated on a small area is a microburst.

Microbursts can occur at any time during the wet season and often with little or no warning. Typical weather associated with microbursts include:

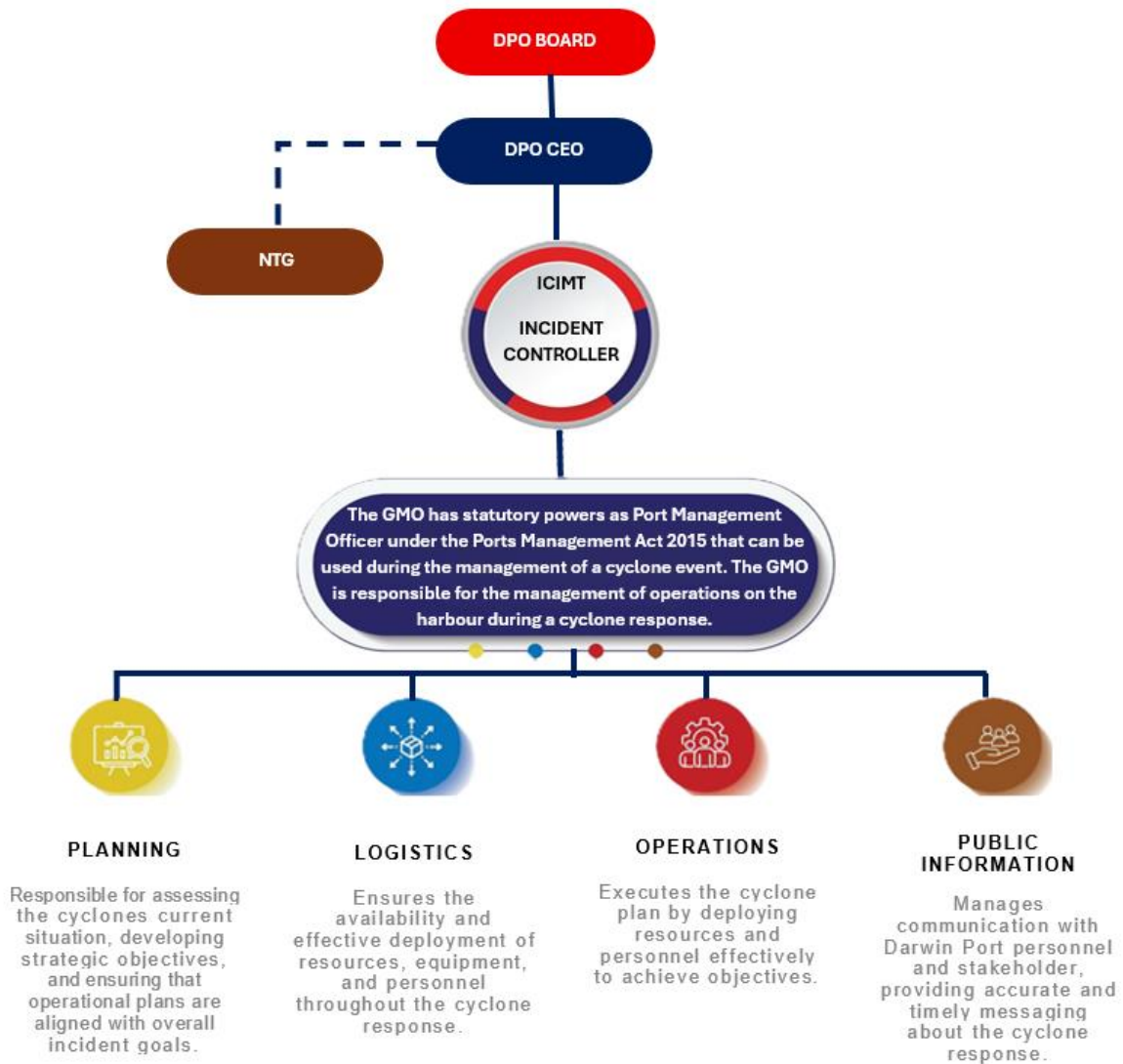
- **Damaging wind** – 90km/h or greater
- **Tornadoes**
- **Heavy rainfall** conducive to flash flooding

## DARWIN PORT CYCLONE MANAGEMENT STRUCTURE

Overall response coordination for a cyclone event in Darwin rests with the Northern Territory Emergency Services.

Cyclone events will be managed using a methodology consistent with the *ICIMP*. However, given that cyclone events are usually predicted many hours before their consequences are felt, management tends to be more measured and aimed at preparing to minimise the impact.

Recovery from the impact will be managed in accordance with the *ICIMP*.



**Figure 1 – DP Emergency Management Structure Adapted for Cyclone Events**

## NOTIFICATION OF CLOSURE OF SCHOOLS

On receipt of advice from the *CDC* that schools have been closed, and subject to approval from their respective general managers, primary care givers may be released from duty to collect their children from school.

If a childcare centre closes due to the “Notification of Closure of Schools”, primary care givers may be released from duty to collect their children.

Employees with other carer responsibilities, e.g., elder care or who collect children from a childcare centre which is closed prior to the “Notification of Closure of Schools”, may be released from duty to attend to their carer responsibilities.

The Port of Darwin will not close at this time and all other employees are to remain at work.

## NOTIFICATION OF CLOSURE OF DARWIN PORT OFFICES

The *CEO* will release non-essential staff to seek shelter where possible.

Employees with cyclone management responsibilities (including rostered *HCOs*, *MSGs* and *PLOs*) are required to remain at work, if it is safe to do so, until they have completed their responsibilities under this plan or until the *CEO* releases them from duty.

All DP employees should ensure that adequate individual cyclone preparation measures have been implemented to ensure the safety of their families, homes and property before a cyclone is directly affecting the Greater Darwin region. Additional cyclone preparedness information is available from the Northern Territory Emergency Services website at:

<http://www.pfes.nt.gov.au/emergency-service/public-safety-advice/natural-disaster-advice/cyclones>

## KEY STAKEHOLDERS

The following entities have been identified as key stakeholders and should be familiar with the Cyclone Plan:

- Department of the Chief Minister (Emergency Response Group)
- Department of Logistics and Infrastructure
- Northern Territory Fire and Emergency Services
- Northern Territory Police
- All Darwin Port Tenants
- All Port Users

The Cyclone Plan is available to download from the DP website:

<https://http://www.darwinport.com.au/facilities-services/emergency-cyclone-plans>

Stakeholder and contact details for response agencies are contained in **Appendix 1 - Contact Details**.

## RESPONSIBILITY OF VESSEL'S MASTERS AND OWNERS

Masters, owners and operators of vessels are responsible for the following:

- Ensuring that no vessels are left unattended whilst at anchor in the designated Small Boat Anchorage (SBA).
- Ensuring that they have their own current cyclone contingency plan and providing a copy (in electronic form) to the GMO if requested.
- Ensuring a responsible OOW is contactable 24 hours to receive notification of potential severe weather events.
- Awareness of the advice contained in the [Mariners' Handbook](#) NP100 regarding navigable and dangerous semicircles of Tropical Revolving Storms.
- Ensuring the safety of their vessels and crew.
- Ensuring their vessels are secured.
- Ensuring main engines are not immobilized within the port limits without prior approval of the GMO.
- Following explicitly, all directions issued to them by the GMO, acting GMO or PMO.
- Following explicitly, all instructions issued to them by the General Managers and staff of DP.
- Bearing the cost of any damage caused by their vessels to DP infrastructure and/or other vessels.

Masters of all vessels working in the Port of Darwin between 1 November and the 30 April will be advised to familiarise themselves with the current Darwin Port *Cyclone Plan* and obtain a copy of the map outlining cyclone refuge locations in and around Darwin Harbour Shown in **Appendix 2 - Cyclone Refuges**.

## DARWIN PORT MARINE PILOTS

DP Marine Pilots are responsible to:

- Ensure that vessel masters are aware of this cyclone plan and their obligations.
- Facilitate effective communication and execution of these procedures with all relevant parties.
- Obtain 24-hour contact details with the responsible OOW, for potential severe weather event communications.
- Disseminate established contact details for communication of potential severe weather events.

## VESSEL TRACKING

Darwin Harbour on-duty *HCO* will coordinate the tracking of all vessels affected by the cyclone response.

## COMMUNICATION

### GMO / Regional Harbour Master (RHM) Relationship

The *GMO* is an appointed Port Management Officer (*PMO*) under the *Ports Management Act 2015*, having statutory authority to issue directives and ultimately, if the situation requires, to close the Port of Darwin.

The *GMO* shall meet regularly with the *RHM*. It is essential that a strong working relationship exists between the *GMO* and the *RHM*, and that the *GMO* keeps the *RHM* fully informed regarding cyclone preparedness, the possibility of a cyclone, and in the case of a cyclone, the *GMO* shall keep the *RHM* informed of any cyclone response action taken by DP. Contact may be by phone call, by email or in person.

The *RHM* is a regulatory officer and in accordance with the *Ports Management Act 2015*, has step in rights and authority to direct a *PMO* to act in accordance with his or her directions should he or she feel the situation so demands.

### Stakeholders for Early Engagement

There are many stakeholders under the Cyclone Plan. The Cyclone Plan and associated work instructions identify the engagement of certain stakeholders during a cyclone event.

Because they manage assets that are effectively outside the control of DP, certain critical stakeholders require early engagement. A close working relationship needs to be in place with these stakeholders well prior to, and during, the cyclone season. The relationship should include meeting and exchanging copies of respective cyclone plans prior to the official cyclone season to discuss any cyclone plan changes, and to clarify the roles and responsibilities of the various parties in a cyclone event. Key stakeholders are encouraged to ensure that they are suitably identified within the Cyclone Plan through engagement at the Port User Group forums which are hosted regularly during the year by DP.

In the case of a developing tropical low with no cyclone Advice yet being declared, these critical stakeholders must be engaged so that preparedness for DP is optimised.

Refer to **Appendix 1 - Contact Details**.

### Communications during cyclone response

Communication with Port of Darwin stakeholders will be by the SMT&P using the Contact List at Appendix 1.

Communication with *EAW* tenants and operators of berth and marine facilities will be by the *GMO* to those stakeholders highlighted in the stakeholder contact list.

### Exercise Procedure

Prior to 1 November 2025, DP will conduct a stakeholder desktop cyclone exercise. The purpose of the exercise is to ensure that all parties can apply the cyclone plan, identify and eliminate any inadequacies and address any areas of confusion regarding roles or responsibilities. A similar exercise is to be conducted with all DP personnel who have a role in this Cyclone Plan.

## COMMUNICATION METHODS

Various means of communication will be used during the response to a tropical cyclone event as follows:

**Face to Face** meetings may be held by the ICIMT, usually in Meeting Room 3 at the DP office on EAW. Alternative venues may be selected during the incident to minimise travel or in the event of damage to the office building.

**Microsoft Teams** will be used to facilitate safe communications with stakeholders. The *GMO* will call Microsoft Teams meetings where stakeholders can join as a video or audio call to discuss response actions taken so far and to obtain a common picture of response activities moving forward. **Microsoft Teams** will also be used by the *ICIMT* to minimise travel and to assist facilitate employees working from home if there is not a need to attend the office.

**Mobile Phones** will be used for all communications to staff on the status of cyclone plan and requirements to attend the workplace. Important messages and changes in the tropical cyclone and the port status will also be communicated using mobile phones.

**Marine VHF Radio** will be used to broadcast information to port users and stakeholders. Darwin Harbour Control will be the radio communications hub and will be responsible for broadcasting updates regarding the cyclone status, the current level of 'Advice,' 'Watch and Act' or 'Emergency Warning' and information regarding vessel movements and the status of the port. A list of Darwin Port personnel utilising VHF radios is in **Appendix 3 – Darwin Port Radio Call Signs**. Various VHF channels are allocated for port and harbour operations as detailed in **Appendix 4 – VHF Channels**.

The communication means listed above are preferred due to the 'closed loop' nature of the communication.

**Email** will be used to distribute information, including status information for the tropical cyclone and the Port of Darwin.

**Social Media** – DP has an established Facebook account under Darwin Port Operations. DP will use this social media platform to communicate the status of the port and associated operations.

**WebEOC** is a computer-based Emergency Operations Centre capability which has been adopted for use in the Northern Territory by *NTES*. WebEOC provides NT Incident Command with information regarding response activities. Information is provided via the *RHM*.

**Darwin Port website** will be used to provide information on the status of the Port and the DP tropical cyclone response.

**Darwin Port intranet** will be used to provide DP personnel with updates regarding the current port status and its tropical cyclone response, until such time DP offices are closed.

**Text Messages** - Individual managers will utilise text messages as a means of communicating information to personnel in their teams. Additionally, DP will communicate with stakeholders and Port users if emergency communication is required.

## MEDIA MANAGEMENT

Engagement and interactions with media are coordinated by the CEO and all media enquiries should be directed to the CEO on mobile 0401 117 056.



DP takes direction from *NTG*, who will issue coordinated public cyclone announcements. The Chief Minister and the Police Commissioner are the only persons authorised to make public announcements on behalf of *NTG*.

DP is responsible for providing public statements on the status of the Port of Darwin during a cyclone; that is, whether it is open or closed and safety messaging provided to commercial vessels within the Port of Darwin.

## **WEATHER FORECAST MONITORING**

DP monitors numerous weather forecasting sites during the cyclone season to maintain a well-developed and early understanding of potential weather impact.

## **TROPICAL CYCLONE SEVERITY CATEGORIES**

The severity of a tropical cyclone is described in terms of categories in the range 1 to 5 related to the severity of the cyclone.

The *BOM* Warning Service is not designed to give an exact statement of conditions at individual locations but will give a general idea of the expected worst conditions. Using this severity scale, communities will be able to assess the degree of cyclone threat and take appropriate action.

Category	Maximum Mean Wind (km/h)	Typical Strongest Gust (km/h)	Typical Effects
1	63 - 88	<125	Damaging winds. Negligible house damage. Damage to some crops, trees and caravans. Craft may drag moorings.
2	89 - 117	125 – 164	Destructive winds. Minor house damage. Significant damage to signs, trees and caravans. Heavy damage to some crops. Risk of power failure. Small boats may break moorings.
3	118 - 159	165 - 224	Very destructive winds. Some roof and structural damage. Some caravans destroyed. Power failure likely.
4	160 - 199	225 – 279	Significant roofing loss and structural damage. Many caravans destroyed and blown away. Dangerous airborne debris. Widespread power failure.
5	>200	> 279	Extremely dangerous with widespread destruction.

Additional information can be found on the *BOM* website by following the link:

<http://www.bom.gov.au/cyclone/about/>

## TROPICAL CYCLONE SERVICES

*BOM* provides the following cyclone information services throughout the cyclone season.

### Tropical Cyclone Seasonal Outlook

This is issued at the beginning of the season to provide an estimate of the level of tropical cyclone activity in the coming season.

### Tropical Cyclone Outlook

These are issued daily throughout the tropical cyclone season. They provide a forecast up to seven days in advance of the probability of cyclone development in the seas around Australia.

*BOM* will issue Tropical Cyclone Advice when a tropical cyclone is likely to cause winds at 63 km/h or greater (gale force) over Territory communities within the next 48 hours. This lets people know when and how they may be affected.

For each coastal community in the forecast path, Tropical Cyclone Advice includes:

- a Tropical Cyclone Watch, updated every 6 hours when gales are expected to start within 24–48 hours
- a Tropical Cyclone Warning every 3 hours when gales are expected within 24 hours or already happening.

### Technical Bulletin

The Tropical Cyclone Technical Bulletin provides technical details about the cyclone.

## Tropical Cyclone Forecast Track Map

These are issued with tropical cyclone advice to give a geographical representation of the cyclone's past track forecast movement and its threat area.

## Marine Warnings

Marine warnings are issued for high seas and coastal waters threatened by cyclones or other weather events such as monsoon bursts.

Additional information can be obtained from the BOM website:

<http://www.bom.gov.au/cyclone/about/warnings/>

A DP cyclone response is triggered by the declaration of a cyclone 'advice' or 'watch and act', but response actions may be initiated prior to either a advice or watch and act being declared if the *ICIMT* considers early action is warranted.

It must be noted that not all cyclones develop in a position to enable a staged information and warning process from 48 hours before the event. A good example is Cyclone Carlos which formed very close to Darwin on the morning of 15 February 2011. A cyclone "advice" was declared at 11:00, a "Watch and act" at 17:00 and the strongest winds were experienced the same night.

Additionally, DP subscribes to the Early Warning Network weather alerts for specified staff. The list of recipients for these alerts is to be reviewed and updated annually prior to the commencement of the cyclone season.

## STORM SURGE

Both *EAW* and *FHW* are within the Darwin storm surge zone. There is a risk of inundation at both wharves should a storm surge coincide with a high tide. The extent of the inundation would be influenced by the height of the storm surge and the tide height. *EAW* and *FHW* decks are 1.5 metres above the Darwin Highest Astronomical Tide (HAT) height of 8.0 metres.

Potential storm surge inundation depths are available from a 2010 Department of Land Resource Management study available from the website:

<https://denr.nt.gov.au/land-resource-management/water/water-resources/flooding-reports-maps/storm-surge-inundation-maps>

Maps showing storm surge zones are in **Appendix 5 – Storm Surge Inundation 2014**

Port users need to be aware of the risk of storm surge at both *FHW* and *EAW*. Inundation is likely to affect any cargo stored at *EAW* and could affect the continuous provision of electrical power at the wharf.

## DARWIN PORT CYCLONE MANAGEMENT CONSIDERATIONS

The Port of Darwin is the only port between Townsville and Fremantle with full access to multi-modal transport services and is Australia's nearest port to Asia for Australasian trade. DP provides pilotage and harbour control systems and a supply chain capable of handling containers and general cargo, bulk liquids, bulk materials, live exports and heavy lift oversized cargoes. DP also services cruise ships and naval vessels at Fort Hill Wharf and cruise ship terminal. It is also a key support hub for the offshore oil and gas fields in the Arafura Sea, Timor Sea and waters off the coast of Western Australia.

This multi-modal nature of operations introduces many considerations when prioritising shipping during preparations for an approaching tropical low or cyclone and the potential closure of the port. These considerations include crew and passenger welfare, livestock welfare, the number, and types of ships in the port, the status of cargo operations and ship seaworthiness, tidal windows and potential draft restrictions, the lead time necessary to safely evacuate ships from the port, tug availability, pilot availability and potential impacts on the two gas terminals.

The Port of Darwin also contains the Santos LNG jetty and the INPEX LNG, LPG and condensate jetties. Both LNG terminals occasionally receive LNGCs with membrane type tanks. Most membrane constructed LNGCs introduce a specific consideration due to "sloshing". Within a range of tank filling levels, the natural pitching and rolling of the ship at sea, and the liquid free-surface effect, can cause the liquid to move within the tank. It is possible for considerable movement to take place, creating high impact and pressure on the tank surface. This is called "sloshing" and can cause structural damage.

In collaboration with INPEX and Santos a Membrane tanker loading management process has been developed to identify Upper and Lower sloshing limits. This process assists in vessel movement planning during the approach of a cyclone. The loading of Membrane LNGCs during the cyclone season is monitored, recorded and updates distributed to applicable stakeholders. The management of Membrane tankers could see their visit to the respective LNG terminal brought forward to allow the cargo to be loaded and the ship to depart safely ahead of the cyclone impact. Alternatively, the Membrane tanker arrival may be delayed until after the cyclone has passed through the Greater Darwin region.

The Darwin Ship lift project is in construction execution through the 2025 -2026 tropical cyclone season. This is primarily land-based construction activities with cranes and large construction vehicles, however there will be support vessels and barges providing waterborne transport options in the harbour. Both the land-based and waterside stakeholders will need to form part of the communications notification strategy during the cyclone season.

## DARWIN PORT CYCLONE MOORING MANAGEMENT




- DP has sole responsibility for the care, use and maintenance of all DP owned moorings and components and associated costs of replacement.
- DP arranges for all inspections required by the applicable mooring license terms and conditions.
- DP currently undertakes annual inspections of its owned moorings. The annual mooring inspections are carried out immediately prior to the commencement of the cyclone season.

## DARWIN PORT CYCLONE MANAGEMENT STAGES

DP monitors tropical lows and cyclones to make an early assessment of likely path, development and potential impact on the port's infrastructure and operations. Any actions, if deemed necessary will be taken on the basis that a tropical low may develop to cyclone intensity at close range to the port, and category one

cyclones have the potential to intensify immediately prior to crossing the coast. In assessing such potential, advice and information will be obtained from the *BOM* and other appropriate, reliable sources.

DP manages multiple worksites and a variety of infrastructure. DP uses a three-stage plan, to manage its response to a cyclone, followed by a recovery phase as outlined below:

DP REPOSE STAGES	
Pre-Season Readiness	Cyclone procedure and Work Instructions reviewed and updated. Port users informed of cyclone precautions. Revised Cyclone Plan distributed to staff and stakeholders. Cyclone exercises carried out.
Stage 1 - Advice 	Actions as per Stage One requirements in Cyclone Plan. Work instructions completed by designated staff members. Ships placed on four hours' notice of readiness.
Stage 2 – Watch and Act 	Actions as per Stage Two requirements in Cyclone Plan. Key staff report to designated work areas. Work instructions completed by designated staff members. Ships placed on one hour's notice of readiness. Vessels may leave the Port of Darwin of their own accord.
Stage 3 – Emergency Warning 	Actions as per Stage Three requirements in Cyclone Plan. Work instructions completed by designated staff members. All equipment secured. Essential service vessels taken to designated cyclone refuges. Vessels to leave port or proceed to designated cyclone moorings or refuges. All staff leave worksite and take shelter if directed by the CEO. Harbour Control services suspended if the Port of Darwin is closed.
Cyclone past Darwin	Key personnel report to allocated work areas. Preparation for declaration of all clear. Plan for opening of Port agreed and communicated to stakeholders.
Post Cyclone Initial Assessment	All staff report to work once it is safe to do so. Damage and Port of Darwin assessment commenced. Harbour safety assessed.
Post Cyclone Recovery	Staff availability confirmed. Communication systems re-established. Equipment damage reports completed and damage mitigation actioned.
Stand Down	Cyclone damage mitigation completed. Debrief of cyclone response. Cyclone Plan updated where necessary.

## PRE-SEASON READINESS

TASK (to be completed prior to 1 November)	Responsible Office	Applicable SOP
Conduct a cyclone awareness meeting for your location: <ul style="list-style-type: none"> <li>• update listing of critical port users</li> <li>• explain the Cyclone Management Structure and roles of individual officers</li> <li>• ensure all staff are aware of the location of emergency equipment and</li> <li>• remind staff to review the cyclone procedures on DP Intranet</li> </ul>	ICIMT IC	
Check that all equipment (generators, batteries, radios) is in good working order	MPL	
Check that all DP vehicles have a spare key secured in a known location for each worksite	Team Administrators	
Check that spare keys for all worksites have been secured in a known location	MPS	
Check that first aid supplies and torches are in order and restock as required	WH SPL	
Check cyclone status notification EAW message sign on archway	MPS	
Provide notice to masters, operators, owners and agents of all vessels in the Port, and those entering Port, as to their responsibilities for operations during the wet season	GMO/SMMO	CYC-WI-38
Test lifting apparatus for pilot boat pontoon gangway	SMM&E	
Ensure port stakeholder list is updated and current	SMT&P	
Advise East Arm, and Fort Hill Wharf tenants that they are required to secure all loose materials in readiness for the cyclone season	GMO	CYC-WI-22
Ensure Qube, LINX and Aurizon cyclone plans for harbour cranes are appropriate	GMO	
Advise stevedoring companies re procedures for securing of EAW ship loader during the wet season	MPL	
Ensure that your individual work unit area is free of potential missile hazards	GMs and Managers	
Ensure this whole plan has been read so you know what to expect and how to access the information should a cyclone eventuate	All Staff	
Ensure you are aware of who your functional lead is for your location and make sure you have your Senior Manager's and General Manager's contact details	All Staff	
Ensure personal contact details are correct in Chris21 or ADP as appropriate	All Staff	
Update early warning subscription register	CEO EA	

## STAGE ONE – ADVICE

In line with standard practice for emergency management, DP undertake activities for the prevention of, preparation for, response to, and recovery from the specific risks associated with a near or direct impact from a cyclone. To mitigate the risk of injury to people, damage to the port infrastructure and operations and/or financial loss, the following checklists are used as an aide-memoire for the preparation, response, and recovery stages.

Certain tasks are deemed to be mandatory (M) and must be completed as applicable to each stage of a cyclone event.

Other tasks are deemed to be non-mandatory (\*), taking into consideration the assessment of a cyclones likely path, development and potential impact on the port’s infrastructure and operations, the *GMO*, or designated *PMO*, in consultation with the DP ICIMT may determine and approve that non-mandatory tasks may be delayed or not undertaken.

	TASK	RESPONSIBLE OFFICER	APPLICABLE SOP
M	Re-confirm the following to General Managers: <ul style="list-style-type: none"> <li>Spare keys secured in a central location for vehicles and worksite access doors</li> <li>Equipment (radios, torches, generators) is in order</li> </ul> Office equipment can be stowed safely and that loose items are capable of being secured	Senior Managers	
M	Ensure staff complete preliminary preparations to store non-essential office equipment and secure loose items	Senior Managers	
M	Ensure you have contact details for your supervisor	All Staff	
M	Provide an up-to-date list of employees’ names, addresses and phone numbers to People and Culture	HR Specialist	
M	Instruct all vessels in the harbour that a cyclone watch has been declared and that all vessels are required to declare themselves on four hour’s readiness	GMO/SMMO HCOs	CYC-WI-34
M	Warning notice for small boat owners in SBA activated	GMO/SMMO	CYC-WI-35
M	Activate the cyclone watch notification message on the EAW archway on direction by the CEO or GMO	MPS	CYC-WI-19
M	Maintain normal gatehouse operations	MPS	
M	Commence preparations to secure gatehouses at EAW & FHW	MPS	
*	Notify contractor of the need to remove the awnings from the passenger transfer area at FHW, Pilot vessel workshop, FHW containers and EAW Ops building 1	CFOC and SMM&E	CYC-WI-30
M	Check the security of cargo shed doors and windows	MPL	
M	Notify shipping agents and stevedoring companies that all non-essential equipment must be secured	MPL	CYC-WI-23
M	Request DAFF to expedite inspection of any DG’s containers under Biosecurity control. If unable to clear, remove DG’s containers to haul road at stockpile. This will need to be cleared by ABF due to the goods being moved outside the S15 Customs controlled area.	MPL	
M	Meet with stakeholders to discuss anticipated severity of cyclone and to determine actions in respect of stacked	GMO	



	containers, refrigerated containers, DG's, Mobile Harbour Cranes, tugs and pilot boats and any other relevant factors		
M	Engage with DLNG and ILNG to discuss the anticipated cyclone severity and what actions to take for ships alongside, ships due to arrive and the risk of tank-top events. In particular any Membrane LNGC's in port or arriving.	GMO	
M	Ensure pilot boats are fuelled and ready for securing at short notice	PBM's	
*	Prepare to secure FHW Pilot boat pontoon. Only lift gangway if necessary	PB Master WS	PIL-SWI-61
M	Check security of the ship loader belting	SMM&E	
*	Ensure that all fleet vehicles have been fuelled	SMM&E	
M	Ensure bulk diesel tanks are full	SMM&E	
M	Ensure oil, water and tyres are checked on all plant	SMM&E	
M	Ensure all generators at all sites are fuelled and operational. Confirm that all duplicate keys are held in a central and secure location for worksite access doors, DP vehicles and security cabinets.	SMM&E CMPL	
M	Initiate ICT preparations	ICT	CYC-WI-39
*	Remove Yokohama fenders from water and secure appropriately	SMM&E	CYC-WI-28
M	Brief RHM on DP cyclone response status	GMO	
M	Carry out inspection of the SBA, advise owner/operator to remove any unattended vessel to a safe refuge.	GMO/PBM's	

**STAGE TWO – WATCH AND ACT**

TASK		RESPONSIBLE OFFICER	APPLICABLE SOP
M	Advise General Managers that a cyclone Watch and Act has been declared	CEO	
M	Advise all staff and visitors that a cyclone Watch and Act has been issued	CEO	
M	Activate the cyclone warning notification message on the EAW archway on direction by the CEO or GMO	MPS	CYC-WI-20
M	Instruct agents of all vessels in the harbour that a cyclone warning has been declared and that all vessels are required to declare themselves on one hour's readiness	GMO/SMMO/HCO's	CYC-WI-37
M	GMO will consider closing the Port having risk assessed the situation in consultation with ICIMT and stakeholders. No vessels will be allowed to remain at DP anchorages or berths if the port is closed	GMO	
*	Instruct all vessels SCHEDULED to enter the harbour within the next 24 hours that they will have to make alternative arrangements until the cyclone threat has eased.	GMO/SMMO/HCO's	CYC-WI-36
*	Remove the awnings from the passenger transfer area at FHW and EAW Ops building 1 if this has not been done earlier	SMM&E	
M	Secure EAW and FHW plant and equipment	SMM&E	CYC-WI-32
M	Secure ship loader and belting at EAW	MPL/PLO	CYC-WI-18
*	Secure environmental monitoring equipment	EM	CYC-WI-27
*	Secure workspaces	All staff	
*	Undertake ICT shutdown procedures	All staff	CYC-WI-39
*	Ensure that external work areas have been cleaned up and areas are free of potential missiles	CMPL	
M	Assist General Managers to ensure that vehicles are fully fuelled, and spare keys secured	Team Administrators	
*	Secure the cattle races	MPL/PLO	
M	Re-check that all loose material has been secured or removed from EAW	MPL/PLO	
*	Lash and secure all cargo and equipment remaining on the wharves	MPL/PLO	
M	Instruct stevedores to reduce windage impact on container stacks	MPL	
M	Cease access to EAW by road trains and other vehicles bringing cargo on site. The vehicles need to be staged in an area outside the EAW entry	MPL	
M	Re-check all generators are fuelled and operational	SMM&E	
M	Re-check all emergency communication equipment is operational and back up batteries are fully charged	SMM&E	
M	Ensure the pilot boats are fully fuelled and ready for immediate use. One pilot boat should be relocated into Frances Bay Marina to reduce the risk on the Harbour.	PB Master	

M	Check that all communications equipment is operational	Senior Managers	
*	Supervise clean-up of work areas including store areas	Senior Managers	
M	Prepare to secure FHW pilot boat pontoon & lift gangway if necessary.	PB Masters and WS	PIL-SWI-61
*	Remove Yokohama fenders from water and secure appropriately if not done earlier	SMM&E	CYC-WI-28
M	Brief RHM on DP cyclone response status	GMO	

### STAGE THREE – EMERGENCY WARNING

TASK		RESPONSIBLE OFFICER	APPLICABLE SOP
*	GMO will reconsider closing the Port having risk assessed the situation in consultation with stakeholders. No vessels will be allowed to remain at DP anchorages or berths if the port is closed	GMO	CYC-WI-24
*	If the port is closed, instruct all vessels except those in the mooring basin, or those necessary for duty, to clear for sea or seek refuge in the designated cyclone refuge areas	GMO/HCO	
M	Notify all visiting contractors and vendors	CEO	
M	CEO may issue notice to non-essential staff to leave the work site	CEO	
M	Activate the cyclone warning (12 hr) notification message on the EAW archway on direction by the CEO or GMO OR, if the port is closed Activate the Port Closed notification message on the EAW archway on direction by the CEO or GMO	MPS	CYC-WI-21
M	Secure cruise ship terminal and FHW	CFOC	CYC-WI-29
M	Secure all gatehouses at EAW and FHW	CFOC and MPS	CYC-WI-25
M	Secure pilot vessels in the mooring basin – 3m tide dependent	PB Master	
M	Isolate the chlorinator and inform EAW tenants and DP employees accordingly	SMM&E	
M	Close all water valves on FHW and EAW	SMM&E	
M	Isolate backup power generator as required	SMM&E	CYC-WI-26
M	Close main water valves adjacent to wharf abutments at EAW	MPL	
M	Ensure you have your C Managers and General Manager's contact details	All staff	
M	Secure all sheds and offices on EAW	MPL/PLO	
M	Isolate power to ship loader	MPL	
M	Await instructions from the CEO or delegate	All staff	
M	Brief RHM on DP cyclone response status	GMO	
M	An official announcement will be made by the Northern Territory Emergency Services advising the public to seek shelter.	All Staff	
*	If the port is closed and it is assessed that personnel should leave the workplace, the CEO will instruct all personnel to leave the workplace. Please Note: All staff must check in with their General Manager before leaving.	All Staff	
M	<b>All staff will leave the worksite if and immediately seek shelter when directed by the CEO or IMT IC.</b>	All Staff	

## CYCLONE PAST DARWIN

Teams meeting/phone hook up with GMO and Leadership team to determine initial site inspection team.

When All Clear Pending is announced by the CEO or GMO, the following DP personnel are to report for work at the earliest practicable time, irrespective of whether the day falls on a weekend or public holiday. Personnel should only report to work if it is safe to do so.

<b>The following key personnel will report to their allocated work area as set out below:</b>	
<b>ICIMT</b>	All members of the ICIMT are to report to the DP Administration Building
<b>Senior Managers</b>	Report to their areas, ascertain status of facilities under their control and report to the ICIMT
<b>MPS</b>	Normal place of work
<b>PLO</b>	Rostered Port Landside Officers to report to their allocated workplace
<b>HCO</b>	Duty HCOs to report to Harbour Control Centre
<b>MPL</b>	Normal place of work
<b>SMM&amp;E</b>	Normal place of work
<b>Marine Pilots</b>	Pilots rostered on should report to the DP Administration Building
<b>Pilot Boat Crew</b>	Rostered pilot boat Master and deckhand should report to FHW. Off duty pilot boat Masters and deckhands should make themselves available to operate other floating plants
<b>SMLO&amp;S</b>	Report to their areas, ascertain status of facilities under their control and report to the ICIMT
<b>EM</b>	Normal place of work
<b>SMWHS</b>	Report to the ICIMT

All staff are expected to listen to radio or other media broadcasts and to contact their Direct Manager to determine what action is required.

Employees who are unable to return to work due to their personal circumstances (e.g. school remains closed, local flooding prevents travel, severe damage to an employee's residence requiring immediate attention), may, with GM approval, take appropriate leave.

Reporting for work should be as soon as possible after arrangements have been made for the accommodation of dependants and the safeguarding of property.

Other staff will be advised to report for work at the earliest practicable time.

The *GMO* will liaise with Emergency Services and *NTG* Disaster Committees as required.

General Managers and Senior Managers are to contact staff and report to the *ICIMT* on the availability of personnel and expectation of level of service available in the short term.

A central debrief is to be conducted by the *ICIMT* as soon as practical to develop a recovery plan (refer Post Event Recovery).

The *ICIMT IC* is to advise the *CEO* of the current operational situation and provide formal report as soon as possible.

## POST EVENT RECOVERY

After due consideration and consultation, the *CEO* may issue an 'all clear' and *ICIMT* members to liaise with staff to return to work. As soon as possible after arrangements have been made for the accommodation of dependants and the safeguarding of property, all staff are required to report back at work during normal business hours.

DP has significant responsibilities to its stakeholders, and it is important that normal business operations be restored as quickly as possible.

Staff members who have not been contacted by their *GM* or *Senior Manager* after the "Cyclone All Clear" has been declared are to take the initiative to contact their *GM* or *Senior Manager* as soon as possible.

If it is evident that Darwin has suffered considerable damage because of the cyclone, only key DP employees will be recalled as necessary. If in doubt, contact your *GM* or *Senior Manager*.

### ICIMT IC (under CEO direction)

1. Maintain liaison with *RHM* to coordinate any specific requirements for Darwin Port. *GMO* to brief *RHM* on port status.

### General Managers

1. Check status of staff, report staffing position to *ICIMT IC* and advise details of key personnel present.
2. Check your unit's operational capability and level of damage, including condition of equipment and report to the *ICIMT IC*.
3. Identify what manual processes need to be implemented and ensure staff have effective procedures for recording and processing all work.
4. Ensure all vehicles/equipment available for use have required priority and ensure that all vehicle/equipment allocations are recorded.
5. Keep the *ICIMT IC* informed on the operational capacity of your section and additional resources/private sector contractors etc. required to effect repairs.

### Senior Managers

1. Convene meeting with available General Managers, assess damage, devise recovery strategy, and re-establish priorities.
2. Prepare status reports for all buildings and operational areas including details of staffing and report to General Manager.
3. Continue to liaise with business units and facilitate recovery arrangements.

### Port Infrastructure

The priority is to assess the status of all Darwin Port infrastructure. The severity of the cyclone and its consequences will influence the decision to reopen the port will include an assessment of:

- The integrity of the shipping channels including any changes to channel depths;
- The integrity of navigation aids;
- The loss of any vessels, containers or other large objects that could pose a navigation hazard; and
- Damage to Port infrastructure that affects the ability to moor and service vessels safely.

Depending on the severity of the cyclone event, the assessment may be done using in-house resources or may be tasked to external contractors.

## **STAND DOWN**

The Northern Territory Government will declare stand down once it is considered that no further counter disaster measures are necessary. Declaration of stand down is followed by a series of formal debrief meetings aimed at improving response plans and procedures. The DP debrief will be coordinated by the *ICIMT IC*.



## APPENDIX 1 – Contact Details

CATEGORY	COMPANY	NAME	POSITION	MOBILE	OFFICE	EMAIL
Aviation	Air Services Australia/Canberra				1300 301 120 02 6268 5555	
Aviation	Airborne Solutions			0429 775 555		<a href="mailto:info@airbornesolutions.com.au">info@airbornesolutions.com.au</a>
AFANT	Amateur Fishermen's Association of the NT (AFANT)	David Ciaravolo	CEO	0415 471 600	08 8945 6455	<a href="mailto:office@afant.com.au">office@afant.com.au</a>
DMSB	ASCO	Kylie Arnel John Cowan	DMSB Manager DWSB Manager	0418 533 048 0448 148 957	08 8985 9506	<a href="mailto:Kylie.arnel@ascoworld.com">Kylie.arnel@ascoworld.com</a> <a href="mailto:John.cowan@ascoworld.com">John.cowan@ascoworld.com</a>
ABF	Australian Border Force		Switchboard Marine Logistics	AH -1300 558 099 0419 515 859	02 6264 1111	<a href="mailto:RCUOPSNT@abf.gov.au">RCUOPSNT@abf.gov.au</a> <a href="mailto:marinelogistics@homeaffairs.gov.au">marinelogistics@homeaffairs.gov.au</a>
ABF	Australian Border Force Marine Logistics Darwin		Marine Logistics	0419 515 859	08 89202572	<a href="mailto:act.op.command@abf.gov.au">act.op.command@abf.gov.au</a> <a href="mailto:marinelogistics@homeaffairs.gov.au">marinelogistics@homeaffairs.gov.au</a>
ABF	Australian Border Force NT Supply Chain		Supply Chain NC	0497051395	0889016219	<a href="mailto:supplychainnc@abf.gov.au">supplychainnc@abf.gov.au</a>
Commonwealth Gov	Australian Maritime Safety Authority (AMSA)	Joint Rescue Coordination Centre	24H Contact	1800 641 792	02 6230 6811	<a href="mailto:rccaus@amsa.gov.au">rccaus@amsa.gov.au</a>
AEP	Australian Energy Producers		Director NT		02 6247 0960	<a href="mailto:contact@energyproducers.au">contact@energyproducers.au</a>
Commonwealth Gov	Australian Transport Safety Bureau (ATSB)	Accident and Incident Hotline	24/7 Aviation, Marine, Rail Accident/Incident Notifications		1800 011 034	<a href="mailto:atsbinfo@atsb.gov.au">atsbinfo@atsb.gov.au</a>
Misc	Baker Hughes	Kevin Smith	Lead Onsite Service Specialist	0419 817 613	08 8943 5603	<a href="mailto:Kevin.j.smith@bakerhughes.com">Kevin.j.smith@bakerhughes.com</a>
Marina	Bayview Marina	Ludbrook Services	Marina Manager and Lockmaster	0477 661 130		<a href="mailto:marinamanager@bayviewmarina.com.au">marinamanager@bayviewmarina.com.au</a>

Marine Service Provider	Bhagwan Marine	Luke Morand	Regional Manager	0407 664 266	08 8982 0600	<a href="mailto:luke.morand@bhagwanmarine.com">luke.morand@bhagwanmarine.com</a>
Local Controller	NTPFES	Shaun GILL		0427 891 660	8901 0255	<a href="mailto:Shaun.Gill@pfes.nt.gov.au">Shaun.Gill@pfes.nt.gov.au</a>
Deputy Controller	NTPFES	Kirsten ENGELS		0437 545 965		<a href="mailto:Kirsten.engels@pfes.nt.gov.au">Kirsten.engels@pfes.nt.gov.au</a>
BOM	Bureau of Meteorology (BOM)	Shenagh Gamble	Hazard Preparedness and Response (HPR) Manager, NT	0447 738 178	08 8920 3872	<a href="mailto:Shenagh.Gamble@bom.gov.au">Shenagh.Gamble@bom.gov.au</a>
BOM	Bureau of Meteorology (BOM)	Todd Smith		0417 897 324	8920 3801	<a href="mailto:Todd.Smith@bom.gov.au">Todd.Smith@bom.gov.au</a>
BOM	Bureau of Meteorology (BOM)	NT Office			8920 3830	<a href="mailto:DSS_HPR_NorthWest_NT_Mgr@bom.gov.au">DSS_HPR_NorthWest_NT_Mgr@bom.gov.au</a>
Emergency Svs	Bushfires	Margarita (Maggy) Towers		0400 203 821	08 8922 0844	<a href="mailto:BushfiresNT.Compliance@nt.gov.au">BushfiresNT.Compliance@nt.gov.au</a> <a href="mailto:Margarita.towers@nt.gov.au">Margarita.towers@nt.gov.au</a>
Fuel Provider	AusFuel/DirectHaul	Andrew Swart	Darwin Operations Manager	0448 886 939	08 8984 0840	<a href="mailto:a.swart@directhaul.com.au">a.swart@directhaul.com.au</a>
Aviation	Civil Aviation Safety Authority (CASA)		Switchboard		131 757	<a href="mailto:oar@casa.gov.au">oar@casa.gov.au</a>
LNG Terminal	Santos	Neel Sud	Marine Superintendent	0409 029 173		<a href="mailto:Neel.sud@santos.com">Neel.sud@santos.com</a>
ADF	Coonawarra Port Services (Navy)	Lieutenant Commander Thomas	Port Services Manager – North Navy Harbour Master	0498 501 961	0419 036 358 Duty PSM	<a href="mailto:mitchell.thomas@defence.gov.au">mitchell.thomas@defence.gov.au</a>
Coroner	Office of the Coroner	Alana Carter	Principal Coroner's Clerk	0409 084 204	08 8999 7770	<a href="mailto:alana.carter@nt.gov.au">alana.carter@nt.gov.au</a> <a href="mailto:nt.coroner@nt.gov.au">nt.coroner@nt.gov.au</a>
Marina	Cullen Bay Marina Manager	Barry Ruddy	General Manager Lockmaster (Radio CH - VHF 11)	0499 177 323 0419 421 363 A/Hrs	08 8942 0400	<a href="mailto:manager@cullenbaymarina.com.au">manager@cullenbaymarina.com.au</a> <a href="mailto:estate.manager@cullenbaymarina.com.au">estate.manager@cullenbaymarina.com.au</a> <a href="mailto:admin@cullenbaymarina.com.au">admin@cullenbaymarina.com.au</a>
Local Government	Darwin City Council	Reece Ravlich		0475 451 172	8930 0640 08 8930 0540	<a href="mailto:Reece.Ravlich@darwin.nt.gov.au">Reece.Ravlich@darwin.nt.gov.au</a> <a href="mailto:Emergency.Management@darwin.nt.gov.au">Emergency.Management@darwin.nt.gov.au</a>
Local Government	City of Palmerston	Nadine Nilon		0403 825 132	8935 9951	<a href="mailto:Nadine.Nilon@palmerston.nt.gov.au">Nadine.Nilon@palmerston.nt.gov.au</a>

Commercial Divers	Darwin Dive Co.	Drew Pearce	Manager	0428 438 527		<a href="mailto:drew@darwindiveco.com">drew@darwindiveco.com</a>
Darwin Port	Darwin Port Board	Terry O'Connor	Board Member	0429 670 385		<a href="mailto:Terry.oconnor@landbridgegroup.com.au">Terry.oconnor@landbridgegroup.com.au</a>
Darwin Port	Darwin Port Board	Ben Cheng	Board Member	0481 195 986	08 8919 0813	<a href="mailto:ben.cheng@darwinport.com.au">ben.cheng@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Carleen Mitchell	Executive/Communications Specialist	0430 548 743	08 8919 0881	<a href="mailto:carleen.mitchell@darwinport.com.au">carleen.mitchell@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Kristy Bellas	Head of Technology and Systems	0438 415 189	08 8919 0808	<a href="mailto:kristy.bellas@darwinport.com.au">kristy.bellas@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Peter Dummett	Chief Executive Officer	0401 117 056	08 8919 0880	<a href="mailto:peter.dummett@darwinport.com.au">peter.dummett@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	David Cairns	Manager Port Logistics	0407 319 706	08 8919 0857	<a href="mailto:david.cairns@darwinport.com.au">david.cairns@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	EAW Gatehouse	Duty Maritime Security Guard	0401 110 320	08 8919 0816	<a href="mailto:security@darwinport.com.au">security@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	David Power	General Manager, Operations	0417 867 886	08 8919 0801	<a href="mailto:david.power@darwinport.com.au">david.power@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Harbour Control	Duty Control Tower Officer	0447 691 460	08 8919 0821	<a href="mailto:harbourcontrol@darwinport.com.au">harbourcontrol@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Peter Sedgwick	Senior Manager Marine Operations	0497 199 726	08 8919 0818	<a href="mailto:Peter.sedgwick@darwinport.com.au">Peter.sedgwick@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Jack Lawrence	Manager, Port Security	0401 117 052	08 8919 0819	<a href="mailto:jack.lawrence@darwinport.com.au">jack.lawrence@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Jeremy Wu	IT Systems Manager	0401 117 050	08 8919 0810	<a href="mailto:jeremy.wu@darwinport.com.au">jeremy.wu@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Port Logistics Officer		0408 465 063	08 8919 0856	<a href="mailto:cargo@darwinport.com.au">cargo@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Matthew Thompson	Manager, Maintenance & Wharf Services	0436 105 010	08 8919 0837	<a href="mailto:Matthew.thompson@darwinport.com.au">Matthew.thompson@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Darren Gilbert	Senior Manager Trade & Property	0400 886 704	08 8919 0882	<a href="mailto:darren.gilbert@darwinport.com.au">darren.gilbert@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Ryan Akers	Senior Manager, Maintenance & Engineering	0408 270 919	08 8919 0830	<a href="mailto:ryan.akers@darwinport.com.au">ryan.akers@darwinport.com.au</a>

Darwin Port	Darwin Port Operations	Rhys Jones	General Manager, Strategy & Growth	0400 872 554	08 8919 0805	<a href="mailto:rhys.jones@darwinport.com.au">rhys.jones@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Sarah-Jane Archdale	General Manager, Legal & Corporate Governance	0436 014 587	08 8919 0823	<a href="mailto:sarahjane.archdale@darwinport.com.au">sarahjane.archdale@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Anthony Millane	Supervisor Wharf Services	0456 932 984	08 8919 0835	<a href="mailto:Anthony.millane@darwinport.com.au">Anthony.millane@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Wayne Bodkin	Senior Manager, Landside Operations & Security	0448 658 652	08 8919 0886	<a href="mailto:wayne.bodkin@darwinport.com.au">wayne.bodkin@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Stacey Smith	Senior Manager, Work Health and Safety	0488 118 728	8919 0825	<a href="mailto:Stacey.smith@darwinport.com.au">Stacey.smith@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	Sam Spence	Cruise Facility Operations Coordinator	0456 643956		<a href="mailto:Samuel.spence@darwinport.com.au">Samuel.spence@darwinport.com.au</a>
Darwin Port	Darwin Port Operations	John Twine	Supervisor of Scheduling and Harbour Control	0409 817 956	8919 0870	<a href="mailto:shipping@darwinport.com.au">shipping@darwinport.com.au</a>
Darwin Port Pilotage (Vessels)	Darwin Port Operations	PV Osprey PV Lamaroo	Master's Contact	0401 110 304		
Darwin Port Pilotage (Vessels)	Darwin Port Operations	PV Osprey PV Lamaroo	Crew's Contact	0429 154 722		
Medical	Darwin Private Hospital				08 8920 6011	
Recreation Marine	Darwin Sailing Club	Steve Green	General Manager	0411 294 963	08 8981 1700	<a href="mailto:gm@dwnsail.com.au">gm@dwnsail.com.au</a>
Recreation Marine	Darwin Trailer Boat Club	Gerard Kelly	General Manager	0499 652 143	08 8981 6749	<a href="mailto:admin@dtbc.com.au">admin@dtbc.com.au</a> <a href="mailto:gm@dtbc.com.au">gm@dtbc.com.au</a>
Marine Service Provider	Darwin Tug & Line	Peter West	General Manager	0417 886 048	0457 433 329 Duty Phone	<a href="mailto:info@dtls.com.au">info@dtls.com.au</a> <a href="mailto:bookings@dtls.com.au">bookings@dtls.com.au</a>
NT Government	Darwin Waterfront	Ralph D'Souza	Chief Operating Officer - DWC	0417 169 553 0428 710 061	08 8999 5155	<a href="mailto:ralph.dsouza@nt.gov.au">ralph.dsouza@nt.gov.au</a>
NT Government	Department of Logistics & Infrastructure	Cindy McDonald Greg Turner	Executive Director, Transport Safety & Services Deputy Group Leader	0488 936 480 0418 395 371	08 8924 7598	<a href="mailto:cindy-lee.mcdonald@nt.gov.au">cindy-lee.mcdonald@nt.gov.au</a> <a href="mailto:Greg.turner@nt.gov.au">Greg.turner@nt.gov.au</a>

NT Government	Department of Industry, Tourism & Trade - Mining & Energy	Louis Gomatos	Senior Director Petroleum Operations	0447 046 435	08 8999 6030	<a href="mailto:louis.gomatos@nt.gov.au">louis.gomatos@nt.gov.au</a>
Recreation Marine	Dinah Beach Cruising Yacht Club	Wendy McCallum	General Manager	0499 346 242	08 8981 7816	<a href="mailto:manager@dbcya.com.au">manager@dbcya.com.au</a>
Marine Service Provider	DOF Subsea	Carole Cartledge	Base Manager DOF Asia Pacific Team Duty Manager	0437 158 614 0419 920 895	08 9278 8779	<a href="mailto:carole.cartledge@dofsubsea.com">carole.cartledge@dofsubsea.com</a>
NT Government	Emergency Services (Police/Fire/Amb)		Emergency non-Emergency		000 - 112 from mobile 131 444	
Marina	Frances Bay Marina (Duck Pond) Lock	Clay Fredericks Greg Hocking Brett Wall FBMB After Hours Small Ship Scheduler	Manager Supervisor Business Officer Duty Call Out	0438 924 274 0428 207 612 n/a 0427 910 220	08 8924 7509 Manager 08 8922 0617 Scheduler 08 8922 0615 Business officer	<a href="mailto:clay.fredericks@nt.gov.au">clay.fredericks@nt.gov.au</a> <a href="mailto:gregory.hocking@nt.gov.au">gregory.hocking@nt.gov.au</a> <a href="mailto:FBMB.DIPL@nt.gov.au">FBMB.DIPL@nt.gov.au</a> <a href="mailto:smallships.scheduler@nt.gov.au">smallships.scheduler@nt.gov.au</a>
Environmental Svs	NTRS	Rodney Awty	Operations Supervisor	0477 266 020	08 8984 1500	<a href="mailto:operations@ntrs.com.au">operations@ntrs.com.au</a>
Transport & Logistics	Aurizon	Sean Walsh	Superintendent	0428 864 410	0400 126 077	<a href="mailto:Sean.walsh@aurizon.com.au">Sean.walsh@aurizon.com.au</a>
Marine Service Provider	Hall Contracting	Mark McCurd	General Manager	0417 240 407		<a href="mailto:markmccurdy@hallcontracting.com.au">markmccurdy@hallcontracting.com.au</a>
NT Government	Harbourmaster / Marine Safety	Anil Chadha Jon Abbey	Regional Harbour Master Deputy Regional Harbour Master	0428 181 480 0417 549 023	08 8999 3867 08 8924 7101	<a href="mailto:Anil.chadha@nt.gov.au">Anil.chadha@nt.gov.au</a> <a href="mailto:jon.abbey@nt.gov.au">jon.abbey@nt.gov.au</a>
LNG Terminal	INPEX	Jamie Collins Su Romaine Thomas Abraham (Primary)	Terminal Ops Coordinator LNG1 Panel – LNG Loading (24Hr) LNG2 Panel -LPG Loading (24Hr) Utilities Panel – C. Loading (24Hr)	0478 139 751 0447 524 088 0421 759 002	8983 8571 8983 8050/8983 8051 8092 8070/8983	<a href="mailto:jamie.collins@inpex.com.au">jamie.collins@inpex.com.au</a> <a href="mailto:Su.romaine@inpex.com.au">Su.romaine@inpex.com.au</a> <a href="mailto:tom.abraham@inpex.com.au">tom.abraham@inpex.com.au</a>

					8071 8983 8060	
	Intertek	Leona Kalua Darryn Kissick	Branch Manager Ops Supervisor	0434 826 557 0409 898 438	08 8913 7540	<a href="mailto:leona.kalua@intertek.com">leona.kalua@intertek.com</a> <a href="mailto:darryn.kissick@intertek.com">darryn.kissick@intertek.com</a>
Transport & Logistics	Linx	Edward Wilson Phil Brewster	Darwin Stevedore Manager Shift Manager	0429 159 464 0418 898 164	08 8947 6000 Option 2	<a href="mailto:e.wilson@linxcc.com.au">e.wilson@linxcc.com.au</a> <a href="mailto:p.brewster@linxcc.com.au">p.brewster@linxcc.com.au</a>
Transport & Logistics	QUBE Ports	Scott Simms	Operations Manager	0401 542 089	08 8922 2300	<a href="mailto:Scott.simms@qube.com.au">Scott.simms@qube.com.au</a>
Shipping Agent	Monson Offshore	Dion Robinson Sarah Quinn Shane Cork	Senior Shipping Operations Shipping Operations Shipping Operations	0448 850 006 0484 046 399 0424 555 154	08 8947 2570	<a href="mailto:Darwin@monsonoffshore.com.au">Darwin@monsonoffshore.com.au</a>
NT Government	NT Emergency Services (NTES)	Krissy Riley Roster	Acting Regional Manager Duty Officer	0427 003 857 0408 896 245	08 8922 3638 08 8922 3630	<a href="mailto:Krissy.riley@pfes.nt.gov.au">Krissy.riley@pfes.nt.gov.au</a> <a href="mailto:territorydutyofficer.ntes@pfes.nt.gov.au">territorydutyofficer.ntes@pfes.nt.gov.au</a>
Environmental Svs	NT EPA	On-call environmental officer	On-call environmental officer		8924 4218 1800 064 567 (hotline)	<a href="mailto:pollution@nt.gov.au">pollution@nt.gov.au</a>
Emergency Svs	NT Fire & Rescue		Watch Commander	0427 363 187	08 8946 4109	<a href="mailto:eric.coomen@pfes.nt.gov.au">eric.coomen@pfes.nt.gov.au</a>
Emergency Svs	NT Police				08 8999 0800	
Environmental Svs	NTRS	Rodney Awty	Operations Supervisor	0477 266 020	08 8984 1500	<a href="mailto:operations@ntrs.com.au">operations@ntrs.com.au</a>
NT Government	Parks and Wildlife NT	Kristen Hay/Sam Hyson	Director Wildlife Operations	0448 482 561	08 8995 5038	<a href="mailto:kristen.hay@nt.gov.au">kristen.hay@nt.gov.au</a> <a href="mailto:Samuel.hyson@nt.gov.au">Samuel.hyson@nt.gov.au</a>
Transport & Logistics	Rentco	Jarrold Dennis	Branch Manager	0427 158 053	08 8947 4187	<a href="mailto:jarrod.dennis@rentco.com.au">jarrod.dennis@rentco.com.au</a>
Medical	Royal Darwin Hospital				08 8922 8888	
Marine Service Provider	Sealink NT (Mandorah Ferry)	Alex Sutcliffe-Larson	Operations Manager	0429 105 301	1300 130 679	<a href="mailto:alex.sutcliffe-larson@sealink.com.au">alex.sutcliffe-larson@sealink.com.au</a>
Marine Service Provider	Seaswift	Keith De Saram	Operations Support	0456 857 157	08 8935 2414	<a href="mailto:keithd@seaswift.com.au">keithd@seaswift.com.au</a>

Marine Service Provider	Serco Defence	Sean Barker	Operations Manager	0461 499 558		<a href="mailto:dmss.coonawarra@serco-ap.com">dmss.coonawarra@serco-ap.com</a>
Marine Service Provider	Shorelands	Meegan Chandler Richard Chandler	Operations Manager Barge Manager	0475 743 471 0477 878 128	08 8932 3344	<a href="mailto:mchandler@shorelandsgroup.com.au">mchandler@shorelandsgroup.com.au</a> <a href="mailto:supervisor@shorebarge.com.au">supervisor@shorebarge.com.au</a>
Emergency Svs	St Johns Ambulance		General Enquiries		08 8922 6200	-
Marine Service Provider	Svitzer Tugs	Ben Roth	Port Manager – Darwin	0408 822 728	1800 451 129	<a href="mailto:Benjamin.roth@svitzer.com">Benjamin.roth@svitzer.com</a>
Marina	Tipperary Waters Marina	Robbie Standalost	Lockmaster	0407 075 077		<a href="mailto:tipperarywatersmarina@bigpond.com">tipperarywatersmarina@bigpond.com</a>
Transport & Logistics	Toll Remote Logistics	Melanie Brady	Port Manager On-Call contact	0428 094 298 0429 380 850		<a href="mailto:Melanie.Brady@tollgroup.com">Melanie.Brady@tollgroup.com</a>
Environmental Svs	Cleanaway Pty Ltd		Emergency Spills Hotline		08 8935 1111 1800 774 557	
Environmental Svs	Veolia Environmental	Rick Barton	Operations Manager	0427 927 723	08 8947 8947	<a href="mailto:nt.service@veolia.com">nt.service@veolia.com</a>
Misc.	Vopak	Shaun Stewart Scott Kernighan	Operations Manager Darwin Safety Co-Ordinator	0419 180 057 0437 839 789	08 8999 9121 08 8999 9104	<a href="mailto:shaun.stewart@vopak.com">shaun.stewart@vopak.com</a> <a href="mailto:scott.kernahan@vopak.com">scott.kernahan@vopak.com</a>
Environmental Svs	Cleanaway Waste Solutions				08 8947 3388 131 339	<a href="mailto:darwin.scheduling@cleanaway.com.au">darwin.scheduling@cleanaway.com.au</a>
Emergency Svs	Water Police				08 8922 3344 131 444	
NT Government	WorkSafe	Workplace Health & Safety	For all accident notification, general enquiries & complaints		1800 019 115	<a href="mailto:ntworksafe@nt.gov.au">ntworksafe@nt.gov.au</a>
Transport & Logistics	Toll Global Express	Travis Humm Ian Redding	Branch Manager PM Operations Manager	0401 691 462 0405 983 868	08 8944 1000	<a href="mailto:travis.humm@teamglobalexpress.com">travis.humm@teamglobalexpress.com</a> <a href="mailto:Ian.Redding@teamglobalexpress.com">Ian.Redding@teamglobalexpress.com</a>
US Defence Fuel	Crowley	Neal McEwin June Cafirma	Terminal Operations Manager HSSE Manager	0497 333 457 0423 560 467		<a href="mailto:neal.mcewin@crowley.com">neal.mcewin@crowley.com</a> <a href="mailto:June.Cafirma@crowley.com">June.Cafirma@crowley.com</a>





## APPENDIX 2 Cyclone Refuges

### APPENDIX 3 Darwin Port Radio Call Signs

DP VHF Marine Radio Call Signs		
CALL SIGN	TITLE / INSTALLATION	DP STAFF MEMBER
Norport 1	General Manager Operations	David Power (PMO)
Norport 2	Marine Pilot	Capt. Gulshan Rangî
Norport 3	Senior Manager Marine Operations	Peter Sedgwick
Norport 4	SM Landside Operations and Safety	Wayne Bodkin (PEO)
Norport 5	Supervisor Shipping Scheduling & Harbour Control	John Twine
Norport 6	Marine Pilot	Capt. Tobias Akesson
Norport 7	Supervisor Wharf Services	Anthony Millane
Norport 8	Manager Port Security	Jack Lawrence
Norport 9	Senior Manager Maintenance & Engineering	Ryan Akers
Norport 10	Marine Pilot	Capt. Sadiq Haque
Norport 11	Marine Pilot	Capt. Scott Wilson
Norport 12	Marine Pilot	Capt. Ben Tan
Norport 13	Manager Port Logistics	David Cairns
Norport 14	Marine Pilot	Capt. Andrew Scott
Norport 15	Marine Pilot	Capt. Julie Latimore
Norport 16	Marine Pilot	Capt. Brent Hills
Norport 17	Marine Pilot	Capt. Chris Cridland
Norport 18	Marine Pilot	Capt. Luca Ferro
Norport 19	Senior Manager Work Health and Safety	Stacey Smith
Norport 20	East Arm Wharf	Duty - Port Logistics Officer
Norport 21	Marine Pilot	Capt. Michael Auchello
Darwin Harbour Control	Darwin Harbour Control	Duty - Harbour Control Officer
PV Osprey	Pilot Boat	Duty - Pilot Boat Master
PV Lamaroo	Pilot Boat	Duty - Pilot Boat Master

\*Fort Hill Wharf Gatehouse only staffed on an as required basis.

## APPENDIX 4 VHF Channels

The following are VHF radio channels used in the Port of Darwin:

Channel	Used By	Type of Use
06	Frances Bay Mooring Basin Lockmaster	Communication with vessels entering or leaving Frances Bay Mooring Basin
08	Tipperary Waters Lockmaster	Communications with vessels entering or leaving Tipperary Waters Marina
09	Darwin LNG	Wickham Point Operations
10	All Vessels	Darwin Harbour Control working channel and primary Port Operations
11	Cullen Bay Lockmaster	Communication with vessels entering and leaving Cullen Bay Marina.
12 and 13	Tugs	Ship manoeuvring with the assistance of tugs
14 and 69	Naval vessels	Navy port working frequency
16	All vessels	[International] distress, safety and calling
17	Hudson	Ship-to shore channel for vessels working on Hudson Creek
87 and 88	INPEX LNG	Bladin Point Operations
67	All Vessels	Coast Radio Darwin – Weather information Channel (0803hrs and 1803hrs)
68	Bayview Marina Lockmaster	Communications with vessels entering or leaving Bayview Marina.
72	All vessels	Ship to Ship, Customs to Quarantine
73	Yachts	Yacht racing and regattas
74	Darwin Marine Supply Base	Darwin Marine Supply Base Operations

## APPENDIX 5 Storm Surge Inundations

