



Bureau of Meteorology

Recorded Cyclone Warning Service 1300 659 210
Internet Address <http://www.bom.gov.au/weather/cyclone>

Notes:

1. Positions on this plan are related to the Map Grid of Australia, Zone 49, based on the Geodetic Datum of Australia (GDA 94). For GPS use, this approximates WGS 84.
2. Portions of this plan are from Department of Transport Nautical Chart Shark Bay - WA 661.
3. Sounding Datum is Lowest Astronomical Tide (LAT) 1992 which is 0.80m below AHD (1994).
4. Hydrographic Survey of dredged channel dated July 2016. Other soundings from surveys in 1986, 1988 and 1992.

Significant Heights

- 2.9m — Cyclone Herbie
- 2.3m — Service Jetty Deck
- 1.6m — HAT
- 1.3m — MHHW
- 0.9m — Mean Sea Level
- 0.5m — MLLW
- 0.0m — LAT



DENHAM MARITIME FACILITY
CYCLONE CONTINGENCY PLAN
November 2016 – April 2017

Purpose of the Plan

Within the limits of the Department of Transport's (Transport) and the Shire of Shark Bay responsibilities and authority, define procedures to: maximise the opportunity for vessels to seek shelter within the facility; reduce the risk to life and vessels operating in the area; and protect as far as possible the maritime facility infrastructure and environment.

Activation of the Plan

The Plan is to be automatically activated once a Cyclone Watch or Warning has been issued for the Denham area. The initial activation will be an internal process at Transport generated by Transport's Manager Northern Facilities Operations (MNFO) involving preliminary basic actions.

The activation involving harbour users will commence on the issue of a Blue Alert for the Denham area.

Harbour Coordinator

The Harbour Coordinator will be appointed from the following people by the MNFO on the issue of a Blue Alert.

Transport MNFO Gascoyne	9947 8201	0427 099 207	9949 2078 facsimile
Gwenda Kempton (DoT SRO Carnarvon)	9941 6805	0407 993 831	9941 1067 facsimile
Paul Anderson (Shire of Shark Bay)	9948 1218	0427 948 925	9948 1237 facsimile
Brian Galvin (Shire of Shark Bay)	9948 1218	0428 178 501	9948 1237 facsimile
Joe McLaughlin (SES)		0419 902 895	9948 1360 a/h
Steve Copeland (DFES)	9948 0000	0428 102 414	9948 1272 a/h
Glen South (OIC, Denham Police)	9948 1201	0429 575 506	9948 1255 facsimile
DoT Satellite Phone		0420 107 049	
DoT after hours		0472 843 288	

Contact details may change. If you are experiencing difficulties contact:

Denham Police 9948 1201 or Denham SES 0419 902 895. For medical or other emergency 000.

Harbour Coordinator's Role

Facilitate the coordination of activities within the harbour in accordance with this Plan.

Facilitate a flow of information between harbour users.

Provide a link with the Denham SES, Denham Police and the Shire of Shark Bay.

Responsibilities of Masters and Owners of Vessels

Masters and owners who choose to operate in cyclone prone areas during the cyclone season: do so at their own risk; need to be watchful for the development of severe weather; are responsible for ensuring their vessels have an onboard cyclone contingency plan; and, should have a current copy of this Plan onboard the vessel. Furthermore, masters and owners are responsible for: the safety of crew and vessel; the provision of mooring lines; and any damage that may be caused to other vessels and public facilities by their vessel.

This Plan in no way replaces the legal obligations of owners and masters of vessels, nor does it seek to over-ride the responsibility of a master to take appropriate precautions for the safety of the crew, or to interfere with the master's independent discretion.

In the general course of business no one is empowered under the Plan to direct or instruct the master or owner of a vessel in such a way that their legal obligations to their crew and to their vessel are compromised. However in instances where the HC determines the actions of a vessel master endanger the lives of harbour users, the HC reserves the right to invoke legislative powers to give a direction to the vessel master to avoid any potential loss of life. The HC must fully consider the level of reasonableness in giving the direction.

The Maritime Facility is a sheltered anchorage only and cannot be guaranteed to be a safe haven.

Furthermore, there are no suitable public onshore shelters at the facility for crew during a cyclone.

The movement of marine traffic in and out of the facility is self managed. The Plan does not and is not intended to interfere with that status.

Communication with Harbour Coordinator

The public telephone network (including mobile and facsimile services) should be used as much as possible to coordinate activities. The Harbour Operation Centre (HOC) is located at the Denham Police Station. The telephone number is 9948 1201, fax 9948 1255, and the callsign is "Denham Maritime Facility".

While the HOC will not be providing scheduled radio broadcasts (in line with industry consultations) frequencies may be monitored while DoT / Shire staff are in attendance at the HOC and by the Denham Volunteer Marine Rescue Group:

HF 4125 kHz for the 3 minute silent period only.	VHF Channel 16
4620 kHz (Fishing Channel)	27MHz Channel 88

A 24 hour, 7 day week HF service operates from the Water Police Coordination Centre that monitors the 4125, 6215 and 8291 kHz distress and calling frequencies. This service covers WA coastal waters within 200 nautical miles off shore. The closest transceiver is at Port Hedland and the callsign is "Coast Radio Hedland".

Important Note: Harbour Coordinators, Masters and Owners please consider your "DUTY OF CARE" responsibilities to remain safe and reduce risk of accidents or injury.

Tidal Storm Surge

Maritime facility users need to be aware that a significant positive storm surge may coincide with a high astronomical tide to result in an extreme water level. The effect of storm surge is most severe when these extreme meteorological events occur in conjunction with high tide. If practicable, the Harbour Coordinator will monitor any significant surge.

Cyclone Mooring Arrangements (Guideline only)

Use of the Jetties and Pens is not considered to be a safe practice during a cyclone event and Masters and Owners need to make alternative arrangements for their vessels (including dinghies). Prior to or upon announcement of a cyclone watch or warning for the Denham area Masters and Owners need to remove their vessels from the water or secure on a suitable mooring. Refer to Harbour Coordinator if unsure of arrangements.

Overview of the Plan

It is important to react early to any Cyclone Advice. TC Herbie developed off the coast during the night and impacted on Denham next morning.

1. Cyclone Watch or Warning

MNFO activates internal processes within Transport awaiting the issue of a Blue Alert.

- Establish / Confirm availability of HOC at the Denham Police Station.

2. SES Stage BLUE

The MNFO appoints the Harbour Coordinator on the issue of the Blue Alert.

Harbour Coordinator's actions:

- Maintain a link with Police, SES and the Shire of Shark Bay.
- "Close" recreational Boat Ramp to outbound traffic.
- Ensure necessary activity for securing the Facility precinct.

Masters and Owners duty:

- If en-route to Denham, maintain contact with Harbour Coordinator.
- Plan to be moored at least 24 hours before cyclone.
- Ensure sufficient fuel on board to clear the facility after the cyclone and return.
- Secure all equipment or remove the equipment from the facility precinct.

3. SES Stage Yellow

Harbour Coordinator's actions:

- Switch off electrical power to Jetty and Pens and confirm water supply to the Jetty and Pens is isolated (contact Shire to assist in isolation of water).
- Any vessel which is known to usually be in the area but has not been accounted for, should be notified to the police.
- Evacuate the HOC and seek appropriate shelter until SES declare the "All clear".

Masters and Owners duty:

- Provide details of personnel remaining on vessels during cyclone and provide to Police and HC.
- Ensure vessels have been removed from the maritime facility.

4. SES Stage Red

There are no actions defined for the Harbour Coordinator. Consider your own safety and observe standard SES procedures.

5. SES Stage "All Clear"

Harbour Coordinator's actions:

- When it is safe to do so (winds/rain have subsided), inspect facility precinct to identify any situation(s) requiring high priority attention.

Masters and Owners duty :

- Confirm with the Harbour Coordinator, the safety of any person who remained on board.
- Ensure all mooring lines are retrieved.
- Advise the Harbour Coordinator of any known hazards or damage to facilities.

Caution: Exercise care and proceed with caution when leaving moorings as navigation aids may be displaced or missing, and there may be floating/submerged hazards.

Acknowledgment

This Cyclone Contingency Plan has been prepared in consultation with the users of the Denham Maritime Facility and the Shire of Shark Bay. The Plan has the potential to preserve life and property. Your support is crucial to the effectiveness of the Plan.

This document is available at: http://www.transport.wa.gov.au/imate/what_to_do_in_an_emergency.asp



Government of Western Australia
Department of Transport