# AUSTRALIAN DEFENCE FORCE FLIGHT INFORMATION PUBLICATION



# FLIGHT INFORMATION HANDBOOK AUSTRALIA

AD2 SUPPLEMENT DARWIN (YPDN)
(EFB SUITABLE VERSION)

Effective:

27 Nov 2025

Approved By

CO 452SQN

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# **CHANGE SUMMARY**

SECTION	CHANGES			
GEN	Removed para 10 Transponder Procedures, information contained in other documents			
AD	Removed para 4.2, information on DTRM contained in ERSA			
DEP	Added para a and b to 3.1, information removed from ERSA			
ARR	Added para 2.8 Go-around procedure for Military Stream Landing Pattern from ERSA			
ARR	Removed para 3 Go-around procedure, re-worded and now contained in para 2.8			
MRFD	Para 3.8.1 changed wording for use of RWY 18/36 at night			

# **AD2 SUPPLEMENT PRODUCTION**

This AD2 Supplement is not subject to a regular review cycle. All AD2 Supplements will be published IAW AIRAC cycles.

# **AD2 Supplement amendments**

To make a change to the AD2 Supplement outside of a new issue date an 'AD2 SUPP Amendment' will be issued through AIS-AF and an advisory NOTAM issued under YPDN.

# Change submissions

Change submissions or proposals for the YPDN AD2 Supplement should be submitted NLT than two months prior to an AIRAC cycle via email to 452sqndarfitprocedures@dpe.protected.mil.au.

# **PREFACE**

27 Nov 2025

#### 1. Introduction

- 1.1 This FIHA AD2 SUPP YPDN is deemed Electronic Aeronautical Information (EAI) and is made available for Electronic Flight Book (EFB) use via the Defence Aeronautical Information Service Provider (AISP) AIS-AF. FIHA AD2 Supplements are available via the AIS-AF FIHA AD2 Supplements.
- 1.2 This FIHA AD2 SUPP ensures compliance with Defence Aviation Safety Regulations (DASR) AO.GEN.05 Management of Orders, Information and Publication (OIP) and DASR.SRoA Standard Rules of the Air by providing usable, current, portable and correctly authorised procedures that support flying operations within the specified area of operations.

# 2. Authority

- 2.1 The authority for this FIHA AD2 SUPP is AC SI (OPS) 01-20 Aeronautical Information Management.
- 2.2 The approval authority is CO 452 SQN.
- 2.3 The sponsor is the Senior Air Traffic Controller YPDN 452SQN DAR FLT FLTCDR.
- 2.4 Endorsement authority is CO 75 SQN.

#### 3. Definitions

- 3.1 The terms used in this AD2 SUPP are defined in the Defence Aviation Safety Regulations <u>Glossary</u> and <u>Australian Defence Glossary</u> (aviation context). Where terms are specific to this AD2 SUPP only, they are identified within this document.
  - 3.2 All levels referred to in this AD2 SUPP are in feet AMSL, unless otherwise specified.

# 4. Applicabilty

4.1 A pilot of an aircraft that is not locally based at the aerodrome, but who advises being familiar with this AD2 SUPP, is deemed to be a local aircraft. If necessary, transient aircraft may request a local area briefing arranged by the AD2 SUPP Sponsor.

# 5. Content

- 5.1 This AD2 SUPP applies to the conduct of flying operations and ATC services at YPDN aerodrome and the aerodrome's surrounding airspace. Information contained in this instruction that may have civil application or may enhance overall useability is also provided in the YPDN section of Enroute Supplement Australia (ERSA).
- 5.2 This AD2 SUPP provides bookmarks and hyperlinks for EFB useability and is broken into the following sections:
  - a. General
  - b. Airspace
  - c. Aerodrome
  - d. Departures
  - e. Arrivals
  - f. Emergencies
  - g. Marine Rotational Force Darwin (MRF-D) Operations

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a.

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# GENERAL

#### 1. ATC frequencies

1.1 Darwin ATC frequencies are: ACD: 126.8/237.3

SMC: 121.8/265.3 h SMCV: 119.55 C. TWR: 133.1/257.8 Ч DEP: 123.0/325.4 е APP West: 134.1/363.8 f APP East: 125.2/305.5

ATIS: 128.25/308/316.2

NEMO (if established during exercise periods): 120.5

Note: VHF communications are preferred, but UHF communications are available if required.

#### 2. Altimitery procedures

2.1 Aircraft operating within DN CTA are to operate on standard pressure settings.

# 3. Flight planning

- 3.1 With the exception of circuit operations and aircraft departing under the Low Level Release Procedure (LLRP), aircrew must ensure that flight plans are submitted for all flying operations.
- 3.2 Flight planning requirements. Aircraft departing/arriving YPDN not for operations in Darwin/Tindal Restricted Airspace must plan IAW ERSA FPR. For operations within Darwin/Tindal Restricted Airspace aircrew should submit flight plans using the standard route templates below, however, should advise ATC of their requested gate at clearance request.
  - M240. DCT DN021025 DN360140 DN060140 DN056025 DCT;
  - b. M263. DCT DN280025 DN280165 DN255165 DN260025 DCT:
  - R262. DCT DN205040 DN200160 DN210160 DN205040 DCT: C.
  - R225, DCT DN155060 DN165275 DN195170 DN190060 DCT; and d.
  - R224/R228. DCT NICOL DCT DN115040 DN110075 DN120100 DN130075 DN120040 DCT e.
- 3.3 Flying programs. Visiting SQN's are requested to submit their daily/weekly flying programs to dar.atc@defence.gov.au to assist in traffic planning.

# 4. Formation management

4.1 452SQN DAR FLT applies formation procedures IAW FIHA.

#### 5. Local parachute operations

- 5.1 Parachute operations are conducted overhead Lee Point (351R/5NM) as well as Bachelor (146R/ 40NM).
- 5.2 When aircraft are arriving on RWY 36 concurrently with Lee Point operations, DN APR will advise the aircraft that Lee Point Drop Zone is active. In the event of a go-around, TWR will issue tracking instructions or a requirement to hold South of Casuarina Square Shopping Centre.
- 5.3 In the event of a radio failure in the above scenario, aircraft are to hold South of Casuarina Square Shopping Centre in right orbits, listen out on the ATIS and/or voice modulated NAVAIDS, and look to the TWR for light signals.

# 6. Meteorology

6.1 ABOC will pass aerodrome warning information to all visiting SQN's (unless ABOC is not available, in this case, DN ATC will pass the relevant information to visiting SQN's). ATC will notify all aircraft inbound to Darwin of the AD Warning.

6.2 The weather balloon release occurs at approximately 1115 and 2315 UTC from the weather observers station with ATC approval. The BOM weather observers office is located adjacent to the FRA. Non-scheduled releases may occur with ATC approval. Balloons ascend at a rate of approximately 1000 FT per minute.

#### 7. Noise abatement

- 7.1 Unless cleared via a SID, all jet and turboprop aircraft above 25 000 kg MTOW are to maintain RWY heading until 2000 FT, and:
  - a. RWY 11:
    - 2 DME/3 TAC BTW 2030 and 1230 UTC; or
    - (2) 7 DME/8 TAC BTW 1230 and 2030 UTC: or
  - b. RWY 29: 5 DME/3 TAC.
- 7.2 During hours of night, all jet and turboprop aircraft above 5700 kg MTOW (excluding designated quiet jets) arriving from the west to land RWY 29, or arriving from the east to land RWY 11, can expect radar vectoring north of built up areas or south over water.
  - 7.3 Unless cleared via a SID, departing military fighter/strike aircraft must maintain runway heading until:
  - a. RWY 11:
    - (1) high level sorties: above 5000 FT, then turn; or
    - (2) low level sorties (below 5000 FT): LAPAR/10 TAC/9 DME and then turn and remain outside 10 TAC/9 DME to intercept outbound track; or
  - b. RWY 29: above 2000 FT and established over water, then turn.

# 8. Reduced Runway Separation Standards (RRSS)

8.1 Refer to FIHA for authorised RRSS distances and procedures. Foreign aircraft may participate in RRSS subject to a Letter of Agreement.

#### 9. Speed restrictions

- 9.1 Aircraft arriving via a cleared STAR must comply with the published speed restrictions.
- 9.2 Unless a higher speed is operationally required the following speeds apply:
- a. non-fast jet aircraft arriving or departing, not on a SID or STAR (including radar vectors), should not
  exceed 250 KT IAS when below 10 000 FT; or
- arriving fast jet aircraft should not exceed 350 KT IAS when within 40 NM of DN, unless otherwise directed by ATC.
- 9.3 Departing fast jet aircraft are exempt from speed restrictions.

#### 10. Visual tracking points

- 10.1 Familiarity with the listed visual tracking points will assist traffic management and may expedite low level clearances:
  - Lee Point (351R/5 NM);
  - b. Hope Inlet (046R/8 NM);
  - c. Jacko's Junction (035R/12 NM);
  - d. Channel Island (192R/8 NM);
  - e. Wickham Point (205R/6 NM);
  - f. Elizabeth River Bridge (147R/8 NM);
  - g. Emkaytee (139R/14 NM);
  - h. Delissaville (235R/15 NM); and
  - i. East Point (274R/5 NM)

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# **AIRSPACE**

- 0.1 This AD2 SUPP provides specific local airspace information that supports the airspace information ERSA FAC, Designated Airspace Handbook (DAH) and relevant aeronautical information charts.
- 0.2 YPDN is a joint-user aerodrome shared by civilian and military operators. During a planned military operation, there is potential for delays to all aircraft whether participating in the respective operation or not.
  - 0.3 Air traffic services (ATS) are provided HR H24 daily.

# 1. North Eastern Training Area (NETA)

- 1.1 The NETA is an IFR training area, defined as the area between the 360 050 (clockwise) DN VOR radials, 15 30 DME. Vertical limits will be specified in the airways clearance.
  - 1.2 The NETA is the preferred airspace to be used for instrument training or post maintenance testing.
- 1.3 Aircraft may flight plan to the NETA provided they have prior approval from the DN Approach Supervisor (Ph: 08 7929 4817). Pilots are encouraged to specify the requested level and nature of intended operations.

#### 2. Circuit Area (CIRA)

2.1 All YPDN CIRA operations and instrument training sorties must be booked by phoning ATC (08 7929 4816) at least one day prior to requested operations. Prior to requesting an airways, SQN operations or the PIC delegate should call ATC to confirm the plan details and traffic levels or expected delays.

#### 2.2 Circuit dimensions

2.2.1 YPDN CIRA is defined as the lateral confines of DN CTR plus DN CTA C1 as defined in DAH.

#### 2.3 Circuit altitudes

- 2.3.1 Jet or turboprop aircraft above 25 000 kg MTOW and all military jet aircraft shall maintain runway heading until at circuit altitude or, for RWY 29, established over water. Circuit altitudes are as follows:
  - a. military jet: 2000 FT;

b. iet: 1500 FT:

c. prop: 1000 FT; andd. helicopter: 1000 FT.

# 2.4 Helicopter circuit operations

- 2.4.1 Helicopters are permitted to operate from sealed or grass surfaces for circuit training operations. Preferences should be advised by the PIC.
- 2.4.2 TWY A. Circuits conducted parallel to, and in the same direction as, the main duty runway from TWY A may occur with simultaneous arrivals and departures on RWY 11/29. ATC maintain separation visually or by assigning the responsibility for separation to a pilot. ATC will provide wake turbulence separation.

#### 3. Restricted Airspace

- 3.1 Supersonic flight. Over-water supersonic flight is approved in M263 outside of 50 NM DN.
- 3.2 **Restricted Airspace Bookings**. All restricted airspace (RA) booking requests and enquiries must be emailed to dar.atc@defence.gov.au NLT 72 hours prior to the requested time. Where it is not possible to provide sufficient notice, the email request should be accompanied by a phone call to 08 7929 4817.

#### 3.3 R203A/B Kangaroo Flats

- 3.3.1 R203A/B are primarily used for military flying and non-flying operations by the Australian Regular Army (ARA). R203A/B is RA2.
- 3.3.2 R203A is active on weekdays 2000 1300 UTC excluding federal public holidays or as amended by NOTAM. The vertical limits are SFC 4000 FT. Activities in R203A must not exceed 3000 FT to maintain a 1000 FT buffer with the upper limit of R203A.

- 3.3.3 Typically R203A is released to DAR ATC, but may be released to the Range Control Officer (RCO) at short notice.
  - 3.3.4 R203B is activated via NOTAM. Vertical limits are 4000 FT NOTAM.
- 3.3.5 Aircraft are not permitted to enter this airspace without specific approval from DAR ATC or if released to RCO, by specific approval of the RCO.

#### 3.4 M240

- 3.4.1 M240A/B/C/D/E/F is a large portion of airspace to the north east of Darwin over water and land and is primarily used for military flying and non-flying operations. Airspace is activated by NOTAM.
- 3.4.2 Portions of M240 are surface to NOTAM or starting at 5000 FT NOTAM to allow aircraft to under fly the airspace and transit the islands below.
- $3.4.3\,$  DAR ATC is able to monitor OPS normal times for aircraft operations in M240 airspace if requested.
- 3.4.4 M240A and M240D are available for partial activation. The partial activation will only change the lateral dimensions of the airspace; all other dimensions and characteristics remain as published in DAH. The partial lateral limits are:
  - M240A PARTIAL: 114512S 1305433E 110502S 1305339E then along the clockwise arc of a circle radius 80.00NM centre 122524S 1305423E (DN/DME) 112050S 1314257E 115307S 1311842E then along the counter clockwise are of a circle radius 40.00NM centre 122524S 1305423E (DN/DME) 114512S 1305433E
  - b. M240D PARTIAL: 115307S 1311842E 112050S 1314257E then along the clockwise arc of a circle radius 80.00NM centre 122524S 1305423E (DN/DME) 120220S 1321238E 121423S 1313341E then along the counter clockwise are of a circle radius 40.00NM centre 122524S 1305423E (DN/DME) 115307S 1311842E

#### 3.5 M263

3.5.1 M263A/B/C/D/E/F/G is a large portion of airspace to the west of Darwin over water and is primarily used for military flying and non-flying operations. Airspace is activated via NOTAM. Partial activations allow greater flexibility of air routes in and out of Darwin. Where possible users should avoid requesting M263E-G due to the impact on major air-routes.

# 3.6 R262

3.6.1 R262 A/B/C is a large portion of airspace to the south west of Darwin. Airspace is activated via NOTAM. Partial activations allow greater flexibility of air routes in and out of Darwin. Where possible users should avoid requesting this airspace due to the impact on major air-routes.

#### 4. Danger Areas

#### 4.1 D214 Robertson Barracks

4.1.1 D214 is a rifle range commonly used by the Army. SFC - 1400 FT H24.

#### 4.2 D217 Bladin Point

- 4.2.1 D217 is a high velocity exhaust plume danger area established overhead Inpex Liquid Natural Gas Plant, SFC 3000 FT H24.
- 4.2.2 D217 may be activated to levels higher than 3000 FT at short notice due to gas flaring. During these times, ATC will tactically separate all aircraft from D217.

#### 4.3 D227 Wickham Point

4.3.1 D227 is a high velocity exhaust plume danger area established overhead Wickham Gas Plant. SFC - 900 FT H24.

4.3.2 D227 may flare to levels higher than 900 FT. During these times, ATC will tactically separate all aircraft from D227.

# 4.4 D228A/B/C Cox Peninsula

- 4.4.1 D228A is used for flying training from SFC 2500 FT and is active during hours of daylight.
- 4.4.2 D228B/C are used for flying training from SFC 1000 FT and is activated via NOTAM.

# 5. Local RPAS Operating Areas

- 5.1 East Point Model Aircraft Club
- 5.1.1 Model aircraft operating at East Point position 270/2.9NM from ARP, SFC to 400 ft AGL.
- 5.2 Skymax Berrimah
- 5.2.1 UA (Multicopter up to 104 KG) operating daylight hours, Monday to Friday, within 250M of position 123/3.23NM FM ARP, SFC to 150 ft AGL.

# **AFRODROME**

#### 1. General information

1.1 The ERSA FAC provides general aerodrome information.

# 2. Ordnance Loading Area (OLA) complex

- 2.1 The OLA complex is made up of the Eastern OLA and the Western OLA. The Eastern OLA contains parking areas 1 5, and the Western OLA contains parking areas 6 10.
- 2.2 ATC controls all aircraft movements within the OLA complex area. ABOC coordinates aircraft parking allocations and all other access requirements.
  - 2.3 Taxi direction: In via TWY R. Out via TWY S and T. Taxi direction within the OLAs is anticlockwise.
- 2.4 The loading of explosive ordinance is only to take place in correctly authorised and licenced areas. ABOC is to liaise with the Base Armament Manager (BAM) when allocating an area for visiting SQNs. ensuring that explosive ordinance (EO) loading/unloading is only conducted in authorsied areas.
- 2.5 SQNs operating out of RAAF Base Darwin are responsible for ensuring all EO licences within the unit operating area are not breeched. If SQNs need clarification on licencing requirements, they are to contact the BAM before proceeding with EO operations.
- 2.6 Certain EO or NEQ of EO requires the use of an OLA state or Military Hardstand (MHS) area. These states apply to civil aircraft, personnel, Darwin International Airport (DIA) operations, and ATC operations.
- 2.7 Due to the extensive impact on DIA and ATC, the ABOC requires at least 48 hours notice for nonoperational EO flights that require the use of an OLA state or MHS state.
  - 2.8 Aircraft should report their EO loads on first contact with ATC.

# 3. Fighter Replenishment Area (FRA) / Bomber Replenishment Area (BRA)

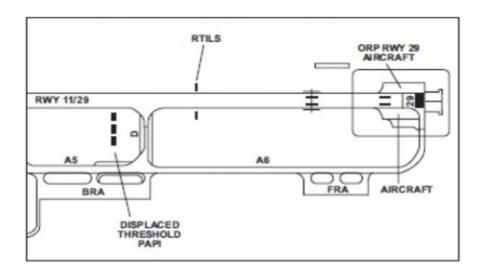
- 3.1 The FRA is an apron south of TWY A6. Aircraft wishing to operate on the FRA require ABOC approval.
- 3.2 The BRA is an apron south of TWY A5. Aircraft wishing to operate on the BRA require ABOC approval.

# 4. Military Hard Stand (MHS)

4.1 The MHS is located south of RWY11/29 and west of RWY 18/36. Aircraft wishing to operate on the MHS require ABOC approval.

# 5. Operational Readiness Platform (ORP)

- 5.1 The ORPs are marked for use by military aircraft with a wingspan of 14 m or less. Larger military strike/fighter aircraft may utilise the ORPs but will space according to their wing tip clearance requirements.
- $5.2\,$  Aircraft greater than 14 m wingspan shall not occupy the ORP concurrently with those of less than 14 m.
- $5.3\,$  The ORP position markings afford 40 m to RWY 11/29 centreline. The clearance from the ORP position closest to the TWY A/RWY holding point, to the TWY centreline reduces to approximately 21 m in the turn.



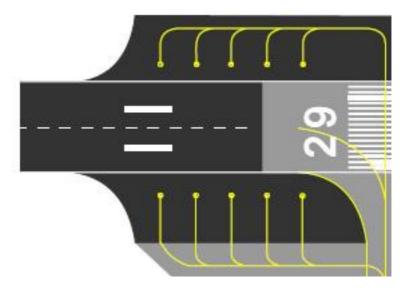
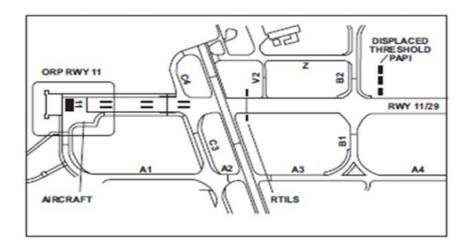


Figure 1 - ORP RWY 29





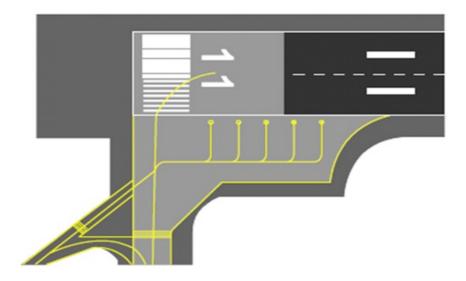


Figure 2 - ORP RWY 11

#### 5.4 Military arrivals/departures

- 5.4.1 The following restrictions apply to military aircraft:
- a. full length operations are available to military aircraft up to 30 m wingspan;
- military strike/fighter aircraft with wingspan 20 m or less may taxi from TWY A onto the RWY with any or all ORP positions occupied;
- c. if the ORP position closest to the TWYA holding point is occupied then military aircraft larger than 20 m wingspan shall not be permitted beyond the holding point; and
- d. if the ORP position closest to the TWY A holding point is not occupied then military aircraft with a wingspan of 30 m or less may be permitted beyond the holding point.

# 5.5 Civilian arrivals/departures

- 5.5.1 Civilian aircraft are unable to land while ORPs are occupied. Civilian arrivals will depart from an intersection forward of the ORPs when occupied.
  - 5.5.2 The ORP operations are subject to the following requirements:
  - a. the maximum crosswind component does not exceed 20 KT;
  - b. the visibility is equal to or greater than 5000 m and the ceiling is equal to or greater than 1000 FT;
  - ATC shall ensure that aircraft crossing the runway to the Northern ORP are established in the ORP
    prior to the arriving aircraft reaching 5 NM from touchdown. Vehicles crossing to the Northern ORP
    are subject to normal RWY separation standards;
  - d. ORP operations may be conducted by day only; and
  - e. an arriving aircraft shall not be cleared to land while another aircraft, vehicle or personnel is on the main RWY within the displaced THR.

# 6. Explosive ordnance operations

- 6.1 Aircraft Safety Point (ASP). There are four ASPs:
- a. Aircraft Safety Point 1 (ASP 1) is located on the eastern threshold of RWY 29 and encompasses both the north and south sides of the ORP and the area of runway separating these two areas. ASP 1 is inclusive of a 100 m countermeasure projection hazard zone extending out from the ASP. The safe forward firing direction is 286 MAG and is indicated on ASP 1 by a white arrow;
- b. Aircraft Safety Point 2 (ASP 2) is located on the western threshold of RWY 11 and the adjacent ORP. ASP 2 is inclusive of a 100 m countermeasure projection hazard zone extending out from the ASP. The safe forward firing direction is 106 MAG and is indicated on ASP 2 by a white arrow;
- c. OLA/ASP 11 is located near the western end of RWY 11/29 and makes up part of the Quick Reaction Alert Facility (QRAF). If ASP operations are to be conducted, no concurrent OLA activities are to be carried out. The safe forward firing direction is towards the forward revetment and is to be confirmed by the BAM; and
- d. OLA/ASP 12 is located near the western end of RWY 11/29 and makes up part of the QRAF. If ASP operations are to be conducted, no concurrent OLA activities are to be carried out. The safe forward firing direction is towards the revetment and is to be confirmed by the BAM.
- 6.2 **Arming and de-arming**. Normal arming and de-arming of ordnance should be performed on an OLA. Depending on the ordnance type and net explosive quantity (NEQ), the arming/de-arming may cause the activation of an OLA state.
- 6.3 **Forward firing ordnance arm/de-arm**. All aircraft being loaded/unloaded with ammunition, rockets or missiles are to be parked on an OLA with an approved 'safe direction' for forward-firing ordnance. Contact the BAM for aircraft type safe direction requirements.
- 6.4 **OLA states**. OLA states A through L apply to civil aircraft and personnel when explosive ordnance requirements are conducted within OLAs 1 to 10 or the bomber replenishment area.
- 6.5 **MHS states**. EO operations on the MHS bays 1 to 3 affect adjacent taxiways and require activation of either MHS state Alpha or Bravo depending on the hazard division and NEQ of EO loaded to an aircraft.

6.6 EO class 1.1 and 1.2 must be off loaded from aircraft parking overnight.

# 7. Hung or uncoupled HE

- 7.1 The pilot in command should notify ATC as soon as they become aware of Hung Ordnance. This allows ATC to prepare the response as well as delay other aircraft if required.
  - 7.2 ASP 1 is the primary ASP for EO emergencies where EEDs are involved.
- 7.3 Rotary Wing aircraft experiencing Hung Ordnance should avoid flying over built up areas whilst tracking inbound on arrival (i.e. fly over water where practicable).

#### 8. Aircraft Arrestor Systems (AAS)

- 8.1 FIHA provides detailed AAS information.
- $8.2\,$  YPDN has two BAK 12/14 hook cables installed on RWY11/29, located 410 m (1345 FT) from the threshold RWY 11 and 465 m (1525 FT) from the threshold RWY 29.
  - 8.3 The normal operating position for arrestable ACFT is:
  - Landing (RWY dry): both ends down;
  - b. Landing (RWY wet or tailwind component): departure end up, approach end down; and
  - c. Departing: departure end up, approach end down.
- 8.4 Position of the cable will not be passed to aircraft when it is in the standard position for the aircraft type.

# 9. RWY18/36 operations

9.1 RWY 18/36 is unlit and is only available for use by military aircraft or aircraft subject to an emergency during hours of night.

# 10. Helicopter Landing Site (HLS) locations

- 10.1 The Eastern Helipad (EHP) is a HLS located south of TWY U1.
- $10.2\,$  The EHP is less than 760 m from RWY 11/29 and, as such, wake turbulence separation will be applied.
  - 10.3 Military helicopters may request to land on TWY A or TWY C.

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# **DEPARTURES**

# 1. Airways clearance

- 1.1 Departure Type. Aircraft can expect to be cleared via a:
- a. RNAV SID where available;
- b. radar SID for aircraft with a MTOW of 25 000 kg or more;
- visual departure or Radar SID (weather depending) for aircraft with a MTOW of less than 25 000 kg; or
- d. LIZARD (RWY 11) or TURTL (RWY 29) SID for ACG aircraft operating within DN/TN restricted airspace.
- 1.2 Level. Aircraft can expect to be issued the following levels (or planned level if lower):
- a. FL180 for aircraft cleared via an RNAV SID, jet aircraft and aircraft with a MTOW of 25 000 kg or more;
- b. 3000 FT to IFR aircraft with a MTOW of less than 25 000 kg; or
- c. 2000 FT to VFR aircraft.
- 1.3 Low Level Release Procedures (LLRP). VFR Helicopters departing Darwin not above 1000 FT should contact Darwin Ground for airways clearance.

#### 2. Take-off

2.1 Rolling take-offs are preferred. Aircraft are to minimise the use of afterburner.

#### 3. Fast-jet departures

- 3.1 When cleared on a radar SID or visual departure, fast-jet aircraft must comply with the noise abatement requirements; and
  - a. RWY 11:
    - (1) High level sorties must maintain RWY heading until above 5000 FT, then turn.
    - (2) Low level sorties (below 5000 FT) must maintain RWY heading until LAPAR/10 TAC/9 DME then turn and remain outside 10 TAC/9 DME to intercept outbound track
  - b. RWY 29: Maintain RWY heading until above 2000 FT and established over water, then turn.

#### 4. Gates for operations within DN/TN Restricted Airspace

- 4.1 The following gates are available for transiting to/from DN/TN Restricted Airspace and are based on the DN-VOR.
  - a. M240:
    - (1) GATE A (360R/25 NM);
    - (2) GATE B (021R/25 NM);
    - (3) GATE C (034R/25 NM);
    - (4) GATE D (056R/25 NM); or
    - (5) GATE E (070R/25 NM).
  - b. R225/M263/R262: Under review, to be advised via local briefing.
  - c. R224/R228: NICOL
  - 4.2 When M240A or M240D partial is activated the following applies:
  - a. The MISLSID Gates A and E are not available to ensure airspace containment
  - ACFT departing via the MILSID to M240 PARTIAL are to track from the SID gate to the corresponding M240 PARTIAL Gates
    - GATE B to WIZZOS
    - (2) GATE C to MONNIES
    - (3) GATE D to SHAGS
  - c. M240A/D PARTIAL Gates:

- (1) WIZZOS (via Gate B) 1149S 13112E DN R-022/40.0 NM DAR R-025/40.0 NM
- (2) MONNIES (via Gate C) 1153S 13119E DN R-033/39.8 NM DAR R-036/40.2 NM
- (3) SHAGS (via Gate D) 1205S 13130E DN R-056/40.0 NM DAR R-059/40.8 NM

# **ARRIVALS**

#### 1. General

- 1.1 Aircraft arriving Darwin should expect the following tracking:
- a. Following operations within DN/TN Restricted Airspace.
  - (1) ACG aircraft: DISCO (RWY 11) or PESEA (RWY 29) STAR; or
  - (2) Non-ACG aircraft: Via the airspace gate then direct DN. Approach will issue further instructions for a visual/instrument approach as necessary.
- Arrivals at 10 000 FT or above. Aircraft should expect tracking (or to be re-cleared) via a STAR
  applicable to their planned route; or
- c. Arrivals below 10 000 FT. Expect clearance on planned route.
- 1.2 **Approach Type.** Unless otherwise requested by the pilot, in VMC aircraft can expect a straight in visual approach. During IMC, or when requested for training, aircraft should advise DN APP of their preferred approach type on first contact.
- 1.3 **Arrivals from Class G Airspace**. VFR aircraft arriving from class G airspace should contact Darwin Delivery for SSR code, and advise inbound details including estimate for Darwin. VFR helicopters arriving not above 1000 FT should contact Darwin Tower directly for airways clearance.
  - 1.4 VTOL Operations. VTOL operations are not permitted.

# 2. Military Stream Landing Pattern (MSLP)

- 2.1 MSLP operations require prior approval from the SADFO.
- 2.2 Straight Initial. 10 TAC aligned with the runway centreline.
- 2.3 **Initial Point (IP)**. The IP is 5TAC (4.4 NM from the RWY 29 threshold, 3.8 NM from the RWY 11 threshold) aligned with RWY 11/29. Aircraft will arrive at the IP via Straight Initial.
  - 2.4 IAW FIHA an automatic flight category change to VFR occurs at the initial point.
- 2.5 **Lateral requirements.** For separation with arriving aircraft to RWY 18/36, aircraft required to run in no further north of the main RWY than the ATC tower and pitch south. Aircraft are required to remain over land for the downwind leg unless otherwise directed by ATC.
  - 2.6 **Speed.** Aircraft shall not fly above 350 KT throughout the MSLP manoeuvre.
  - 2.7 Vertical. The following vertical requirements apply:
  - aircraft shall not descend below 4000 FT until arriving at Straight Initial. ATC clearance for the visual approach does not authorise descent below this level. Should additional descent be required, ATC shall specifically authorise a nominated level;
  - b. from Straight Initial, aircraft shall descend to reach 2000 FT by the IP; and
  - c. from the IP, aircraft shall maintain 2000 FT until commencing the base turn.
- 2.8 **Go-around procedure.** Aircraft conducting go-around shall climb to 1500 FT and maintain RWY heading, tracking between the ATC tower and RWY 11/29 unless otherwise directed by ATC. ATC will issue a clearance for a left/right circuit as required, at which point the go-around aircraft must climb to 2000 FT before turning off RWY heading.

# 3. Explosive Ordinance

3.1 Aircraft carrying Dangerous Cargo and Explosive Weapons Stores shall notify ATC APP or Clearance Delivery on first contact with such advice including the Net Explosive Quantity (NEQ).

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# NOCOM PROCEDURES

- 0.1 An electronic NOCOM form is available from DAR ATC IOT facilitate NOCOM departures.
- 0.2 Contact DAR Approach Supervisor (ASPR) on (08) 7929 4817 or email dar.atc@defence.gov.au.
- 0.3 To facilitate NOCOM departures the following procedures apply:
- The formation leader will fill out the NOCOM request form and email it to the ASPR;
- b. The ASPR will complete the clearance/s on the form and email the form back to the originator; and
- The formation lead will sign the form to acknowledge acceptance of the ATC clearance/s and email the form back to ATC.

Note 1: If the formation lead assesses that an amended clearance will effect operations or wishes to ascertain the reason for a change, these procedures do not preclude them calling the ASPR and negotiating a compromise.

- Note 2: Aircraft and ATC will break NOCOM for any safety issues.
- Note 3: Pass ROLEX +/- via phone prior to stepping. Coordinate with ATC on new timings.
- Note 4: Form to be submitted NLT two hours prior to take-off.
- Note 5: For departures off RWY 11/29 only.

# 1. Light Signals for NOCOM Departures

- 1.1 The following light signals and their meanings are used during NOCOM departures:
- a. Steady green used to indicate that all aircraft in the formation are 'Cleared for take-off and permitted to depart as planned. The green light will be displayed approximately 1 minute before 'roll time' to allow time for line-up and pre take-off checks to be completed
- b. Flashing green used to indicate that all aircraft in the formation are cleared to taxi and where required at a holding point indicate the formation is cleared to cross the non-duty runway; and
- Steady red used to indicate the formation is to hold at their present position and to expect no more than a 2-minute delay before departure.

# 2. Separation Standards on Departure

2.1 To ensure a smooth departure flow in the event of successive NOCOM departures, pilots should consider nominating either VFR for departure or PRS with other participants and annotate this on the NOCOM briefing sheet.

# 3. Departure Types

- 3.1 Visual Departure used to depart below A090.
- 3.2 Tracking instructions used to depart above A100.
- 3.3 Military Terrain Clearance used only to depart low level.

# 4. Unserviceability During NOCOM

4.1 To indicate an intention to remain on the ground due to an unserviceability, the pilot of an aircraft can fold the wings up, raise the canopy or at night extend the probe to activate its light. After the rest of the formation has departed (if applicable), the pilot is to break NOCOM to the Tower and advise intentions and await further instructions.

# 5. Frequency Changes During NOCOM

- 5.1 Frequency changes are to occur at the following points:
- DAR Ground to DAR Tower: occurs as Number 1 approaches the holding point;
- b. DAR Tower to DAR Approach: occurs as Number 1 passes 2000 FT AMSL;
- Switch to operating/Area Frequency: on entry to Area of Operations/Flying Training area (if applicable).

#### 6. Taxi to RWY 11 (Parking Dependent)

- 6.1 Apply the following procedure:
- a. Taxi and hold short of active taxiways at briefed time. VHF on DAR GND, UHF on Form Common;
- b. Formation lead indicate ready to taxi by switching ON anti-collision lights;
- c. On green flashing signal from the Tower, if parked in the QRAF or MHS taxi to full length holding point A1. If parked on the BRA/FRA or in the OLA's taxi to and hold at A3 until another flashing green signal is visible from the Tower, then proceed to holding point A1;
- d. Formation must be ready by briefed take-off time.
- e. Depart as detailed in NOCOM form;

Note: Aircraft and ATC will break NOCOM for any safety concerns.

#### 7. Taxi to RWY 29 (Parking Dependent)

- 7.1 Apply the following procedure:
- a. Taxi and hold short of active taxiways at briefed time. VHF on DAR GND, UHF on Form Common;
- b. Formation lead indicate ready to taxi by switching ON anti-collision lights;
- c. On green flashing signal from the Tower, taxi to holding point A6. If parked in the QRAF or MHS hold at A2 until another flashing green signal is visible from the Tower, then proceed to holding point A6;
- d. Formations will be ready for take-off by briefed take-off time.
- e. Depart as detailed in NOCOM form;

Note: Aircraft and ATC will break NOCOM for any safety concerns.

#### 8. Airborne

# 8.1 Tracking Instructions

8.1.1 Once airborne all aircraft in the formation are to maintain runway heading until 10TAC on climb to cleared level and then RWY11 turn north to MAKRL or south to BIGGA, RWY29 turn north to BARRA or south to CHUKY then direct to cleared way point. All aircraft will climb to reach A100 by 10TAC and then FL140 by MAKRL/BIGGA/BARRA/CHUKY.

# 8.2 Visual Departure

8.2.1 Once airborne all aircraft in the formation are to maintain runway heading until 10TAC, reach planned level by 10TAC then track direct IAW clearance.

#### 8.3 Military Terrain Clearance

8.3.1 Once airborne all aircraft in the formation are to maintain runway heading until 10TAC then track direct IAW clearance.

# **EMERGENCIES**

#### 1. Diversion aerodromes

1.1 The primary diversion aerodrome for Darwin is Tindal. Should Darwin and Tindal not be available, the following are available as emergency diversion aerodromes (in reducing order of suitability):

Aerodrome	RWY	Dimensions (m)	Surface	Position
Bathurst Island (YBTI)	15/33	1470x30	Bitumen	335R/42 NM
Bachelor (YBCR)	13/31	1670x30	Bitumen	164R/40 NM
Tipperary (YTPA)	11/29	2500x30	Bitumen	170R/80 NM
Snake Bay (YSNK)	13/31	1443x30	Bitumen	344R/61 NM

#### 2. Designated fuel jettison area

- 2.1 Other than in an emergency, the designated fuel jettison area is:
- a. over water in the Beagle Gulf,
- b. between the 320 and 060 TAC radials,
- c. 15 to 40 NM; and
- d. 6000 FT or above.

# 3. Premeditated ejection area

- 3.1 The premeditated ejection area is:
- a. waypoint MABAM (110R/015 from the TACAN),
- b. at 5000 FT; and
- c. from MABAM, fly heading 350 degrees and initiate ejection.

# 4. ARFF fire commander

4.1 Upon notifying SMC, emergency aircraft may contact the Fire Commander directly on 131.0.

#### 5. Radio failure procedures in DN CTA or RA

- 5.1 In the event of a radio failure, squawk 7600 and proceed IAW previous instructions.
- 5.2 Aircraft returning from Restricted Airspace should track inbound to DN via a Military STAR (PESEA for RWY 29 or DISCO for RWY 11), then should arrival via a Straight-in Visual Approach (**not** Initial and Pitch)
  - 5.3 Maintain terrain clearance throughout all procedures. 25 NM MSA is 3000 FT.
  - 5.4 Listen out on ATIS (128.25).
  - 5.5 Follow radio failure procedures outlined in ERSA EMERG.
  - 5.6 ATC will raise both the approach and departure end cables.
- 5.7 If practicable, make contact with a Supervisor at DAR ATC. Tower Supervisor 08 7929 4816, Approach Supervisor 08 7929 4817.

#### 6. Hot brake procedures

- 6.1 When advised that an aircraft may have hot brakes, ATC will dispatch Aerodrome Rescue and Fire Fighting (ARFF).
- 6.2 On receipt of notification of hot brakes, aircraft will be instructed to taxi to either the BRA, FRA or TWY D (RWY 11) or TWY G (RWY 29). Pilots are to park the aircraft pointing north or south. TWY D may be used should the BRA and FRA be unavailable.

# 7. Hydrazine procedures

- 7.1 Following an engine restart, and on return to base, the remaining volume of hydrazine in the tanks is to be purged. This allows the safe and controlled re-filling of the hydrazine stores for subsequent missions.
  - 7.2 TWY G is promulgated as the hydrazine venting response parking area.
- 7.3 The alternate hydrazine parking area is the mid-point on TWY A1. If this location is used ATC are to arrange a temporary displaced threshold for RWY 11 with no aircraft, vehicles or personnel not involved in the Hydrazine incident permitted west of TWY C.
- 7.4 The Base Aviation Safety Officer (BASO)/delegate will coordinate with the Hydrazine Response Team (HRT) upon deployment of F-16 aircraft to RAAF Darwin, in order to confirm deployed capability and confirm each parties SOPs.
- 7.5 Affected aircraft can expect to roll through and hold at TWY A1 (RWY 29 arrival) or TWY D (RWY 11 arrival) until the ground crew has arrived and TWY G has been cleared, pending the arrival of the aircraft ground crew and the clearing of TWY G.
- 7.6 If the aircraft is on the flight line, the parent unit is responsible for contacting the ABOC and moving the aircraft to TWY G under ATC taxi instruction.
- 7.7 No purging is to commence until TWY G is clear of parked aircraft and/or equipment, the aircraft is parked on TWY G, and the incident Site Commander (ISC) has the cordon established.

# 8. TWY Alpha emergency landings

- 8.1 If both RWY11/29 and RWY 18/36 are unavailable or unsuitable, TWY A may be used for emergency landings at the discretion of the Pilot In Command (PIC). When TWY A is used for an emergency landing, the following requirements are to be implemented:
  - ATC will advise the BASO, or delegate, that a landing on TWY A will occur, and the BASO will
    ensure that all access to TWY A from the southern side has been closed and is under their control.
  - ATC will stop all access to TWY A from the northern side, ensuring all aircraft vacate RWY 11/29 via the northern exits.
  - c. SMC shall issue a broadcast to all vehicles advising them that a landing on TWY A will take place, and that all vehicles are to vacate TWY A immediately.
  - d. Prior to allowing an aircraft to land on TWY A, TWR will ensure that RWY 18/36 is sanitised, and any aircraft or vehicles on RWY 18/36 are to be held short of TWY A.
  - ATC will confirm with BASO if temporary lighting is available if not stipulated in exercise
    publications. If no temporary lighting is available, ATC will advise the ACFT as soon as possible.
  - f. Once TWR is satisfied that TWY A has sufficient access control in place and is sanitised, they may allow the aircraft to land on TWY A via use of the following RTF:

"[Callsign] TWY A landing at your discretion"

# MARINE ROTATIONAL FORCE DARWIN (MRF-D) OPERATIONS

#### 1. Introduction

- 1.1 The United States Marine Core (USMC) deploy a mixed force of rotary wing assets to YPDN as part of the Marine Rotational Force–Darwin (MRF-D) for approximately 8 months each year (March through to October).
- 1.2 MV-22 and large rotary wing such as CH-53 are located at the FRA, which can cater for 6-8 aircraft comfortably and 10-12 aircraft if required through utilising the ability for aircraft to fold wings and rotor blades.
- 1.3 **Flight planning.** IFR and VFR flight planning will need to be submitted through NAIPS or Brisbane Military Briefing. ATC is unable to file flight plans for aircraft.

#### 2. Robertson Barracks

- 2.1 Robertson Barracks (YRBK) is located approximately 5 NM east of YPDN and is home to the 1st Aviation Regiment (1AVN) which operates ARH Tiger helicopters.
- 2.2 Aircraft wishing to operate into Robertson Barracks are to ensure they have prior approval from the Army.
- 2.3 MV22 aircraft may transit to Robertson Barracks remaining with TWR, not above 1000 FT. The process for departure will be in the same manner as that of the AH/UH operations, listed below.
- 2.4 The CTAF at Robertson Barracks is 126.6 and the lowest level of controlled airspace above the Robertson Barracks is 500 FT.
  - 2.5 A brief on Robertson Barracks operations can be obtained by contacting 1AVN.

#### 3. AH/UH operations

- 3.1 **Parking.** The small rotary wing assets, a combination of UH-1Y Venom and AH-1Z Viper aircraft, are located at the Snake Farm (see below). The Snake Farm is a hardstand located south of OLA 6-10 and East of RWY18/36. It can cater up to eight aircraft of AH-1Z/UH-1Y size.
- 3.2 The Snake Pit is a grass/dirt area located south of the Snake Farm and utilised solely for low level hover operations.
- 3.3 Taipan Alley is a drainage ditch that runs north/south outside the RWY 18/36 runway strip. It is used as a holding point for aircraft taxiing out from the Snake Farm/Pit.



- 3.4 OLA. Aircraft are required to load forward firing ordnance in the OLA complex to ensure compliance with safety protocols. Loading is to occur in OLA 8. Aircraft are to request to transit to OLA 8 via RWY 18/36 and TWY November.
- 3.5 **FRA.** Due to the unique refueling situation at the Snake Farm, aircraft may require transit to/from the FRA. This is to be conducted by requesting to 'Air Transit' between the two locations which shall be done not above 200 FT AGL and remain on Ground frequency. Wake Turbulence Separation will not be applied between aircraft air transiting and other arriving/departing aircraft.

#### 3.6 Departures

- 3.6.1 Aircraft shall establish communications with SMC by using the phrase "DN Ground, Linebacker XX with outbound details" and await a response.
- 3.6.2 Aircraft are to request airways clearance for tracking to either Elizabeth River Bridge (ERB), Channel Island (CHI) or Talc Head (TCH) not above 1000 FT. Notification of fuel endurance/playtime is not required.
- 3.6.3 A departure coastal northbound to Hope Inlet (HPI) is also available for VIP flights but may result in increased delays due to higher priority traffic and is the least preferred routing. Prior notification via telephone is required for this tracking due to potential the impact on civilian traffic.
- 3.6.4 Once an airways clearance is received, aircraft shall request taxi to depart RWY 18 (or TWY Alpha if required from OLAs/FRA). RWY 36 can also be used for departures if the aircraft is unable to accept the tailwind component on RWY 18. If departing from RWY 36 the aircraft will depart into wind to become airborne and then execute a hard turn onto track for ERB, CHI, TCH etc whilst remaining South of RWY 11/29
  - 3.6.5 When established holding at Taipan Alley and ready for departure, aircraft should contact TWR.
- 3.6.6 Once cleared for take-off, aircraft should establish over water as soon as practical to minimise noise complaints.
- 3.6.7 At the CTR boundary TWR will state 'Control Service Terminated, Frequency Change Approved'. Aircraft should then switch to the relevant CTAF/Multicom frequency for Class G broadcasts as required and change SSR code to 6000.
  - 3.6.8 TWR may alter tracking instructions as required for separation with other aircraft.

# 3.7 Arrivals

- 3.7.1 At approximately 15 TAC from YPDN, aircraft should contact TWR 'DN TWR, Callsign, inbound details'.
  - 3.7.2 TWR will respond with an instruction to Squawk 0100 or IDENT and send details.
- 3.7.3 Aircraft are to provide a readback of the code issued as well as their position, altitude, ATIS information received, persons on board (POB) and their intentions (such as for RWY 36 and the Snake Farm or for TWY Alpha and the FRA etc).
- 3.7.4 TWR will then provide an airways clearance if available, or will advise to remain outside controller airspace.
- 3.7.5 When approaching the landing site, TWR will issue a landing clearance as appropriate. For RWY 36, this may be in the form of a 'spot landing' to allow simultaneous operations on RWY 11/29. e.g. "Linebacker, spot land abeam threshold, RWY 36, cleared to land".

# 3.8 Night operations.

3.8.1 In order to best facilitate night operations, aircraft are to specify that they are NVG-equipped by appending 'NVG' to the requested level. This will allow ATC to issue a level below the LSALT and enable a low level departure. RWY 18/36 may be used at night in accordance with NVG procedures.

# 4. MV22 Operations

#### 4.1 Departures

- 4.1.1 Aircraft are to call ACD ('Darwin Delivery') for an airways clearance to their requested destination. MV22s can expect to be cleared direct to their requested destination.
- 4.1.2 When ready for taxi, aircraft are to call Ground notifying receipt of the current ATIS, the number of persons on board and requested intersection for departure.
- 4.1.3 When ready for departure and approaching the holding point, aircraft shall automatically contact TWR.
- 4.1.4 To ensure compliance with noise abatement procedures, MV22 aircraft can expect to maintain RWY HDG until directed by ATC.

#### 4.2 Arrivals

- 4.2.1 Aircraft are to call ACD approximately 20 NM from the CTA boundary for inbound processing where possible.
  - 4.2.2 ACD will require the following information:
  - a. number of aircraft in the formation and formation type or 'single MV22';
  - b. position reference DN;
  - c. level information:
  - d. ATIS information received; and
  - e. POB. Where multiple aircraft in the formation, POB can be stated as '8 plus 5 plus 17' for example.
- 4.2.3 ACD will then issue a squawk code and once identified, they will switch the aircraft to APP E/W as required.
- 4.2.4 APR will then give an airways clearance. If an airways clearance is not received, aircraft are to remain outside controlled airspace.
- 4.2.5 Once the aircraft have vacated the runway after landing, they may automatically switch to ground for taxi instructions.

#### 4.3 General

- 4.4 Noise abatement. For normal operations, MV22 will be restricted to utilising RWY 11/29 for departure to enable compliance with noise abatement procedures. Aircraft are to maintain runway heading until passing A020 and then comply with ATC instructions, unless transiting to Robertson Barracks as outlined in para 6.
- 4.5 Runway 36. RWY 36 may be used for arriving MV-22 aircraft to avoid delays to the main duty RWY. Aircraft landing on RWY 36 are to minimise the time they are hovering over the asphalt to reduce the risk of pavement damage. Regular inspections will be carried out by the BAEO and DIA Safety Officer to check for pavement damage. The use of RWY 36 may be removed should pavement damage increase to an unacceptable level.
- 4.6 **TWY Alpha.** TWY Alpha is not available for use by MV22s as a landing or take off point due to the risk of damage to the taxiway from exhaust gases, the increased potential for FOD on the taxiway as well as wake turbulence effects on RWY 11/29. This may be reviewed by the BAEO and 452SQN DAR FLT OPSCDR for future MRF-D deployments.
- 4.7 **Spot Landing.** In order to enable simultaneous operations on RYWY 11/29, aircraft landing on RWY 36 will be instructed to 'spot land abeam TWY Alpha'. This ensures that the landing can be treated like a helicopter and consequently the required landing area does not infringe on RWY 11/29. Traffic information may/may not be passed regarding aircraft operating to the other RWY, depending on controller workload. Aircraft that require a rolling landing are to notify TWR on first contact.

4.8 **Night Operations.** In order to best facilitate night operations, aircraft are to specify that they are NVG/NVD-equipped by appending 'NVG' to the requested level. This will allow ATC to issue a level below the LSALT and enable a low level departure. This will also enable the use of RWY 18/36 at night. During night operations, a turn direction may be issued on departure however the MV22 must maintain runway heading until passing 2000 FT before commencing the turn to ensure compliance with noise abatement procedures.

#### 4.9 Hover operations

- 4.10 Hover Operations lasting longer than 60 seconds are only to be completed on concrete surfaces to minimise the risk of heat damage to the maneuvering area. Suitable locations include: THR RWY 11, THR RWY 29, BRA or BRA Extension.
- 4.11 Requests are to be sent to the ABOC for approval. Aircrew are also to call the TWR via TEL to discuss the operations with the supervisor. Aircrew are to notify Ground that they have ABOC approval for hover operations with their taxi call.
- 4.12 Wake Turbulence separation will not be provided between aircraft conducting hover operations and other arriving/departing aircraft.

#### 5. Hazardous weather

- 5.1 During the Wet Season (October-April), it is typical for large tropical storms to affect both the aerodrome and the wider Northern Territory.
- 5.2 Depending on ATC workload requirements, the ABOC may not be advised of incoming storm activity. Therefore, MRF-D will be responsible for managing their own recall of aircraft due to severe weather.

# 6. Emergency procedures

- 6.1 Aircrew stating that they are returning for a 'maintenance defect' will not be afforded priority and may be vectored/held dependent on the traffic situation at the time. The Aerodrome Emergency Plan (AEP) will not be activated in this scenario.
- 6.2 In order to obtain priority landing, aircrew will need to declare a PAN or MAYDAY as appropriate to their emergency situation.
  - 6.3 Upon receipt of PAN/MAYDAY notification, the AEP will be activated to the appropriate level.
- 6.4 ATC will provide airborne priority IAW the emergency situation and will also notify the MILSARO (time permitting).
- 6.5 The Emergency Landing Site (ELS) is located on TWY Hotel. Mattresses will be pre-positioned by USMC personnel on TWY Hotel for the duration of each MRF-D deployment.

#### 7. Gear issues

- 7.1 In the event an aircraft has a gear issues:
- a. aircraft will declare to TWR that they have a gear issue;
- TWR will instruct the aircraft to go around and then issue holding instructions to the aircraft. MV22
  can expect to hold over water in the harbour to conduct trouble shooting and reduce noise over
  built up areas;
- c. TWR will activate the AEP:
- USMC ground personnel will position to TWY Hotel and notify the MV22 crew through their OPS frequency once they are in position;
- the MV22 will notify TWR that USMC and emergency personnel are in position and that they are ready to return;
- TWR will clear the aircraft for a visual approach to TWY Hotel. When the aircraft is on final, TWR will clear the MV22 to land;
- once the aircraft is deemed safe, USMC personnel are to notify the Fire Commander who will notify ATC over the radio that the emergency can be cancelled; and
- h. USMC will be responsible for ensuring that the BASO and ARFF are briefed on the ELS procedure.