

**DARWIN INTERNATIONAL AIRPORT**  
**DEPARTMENT OF DEFENCE**

**METHOD OF WORKING PLAN**

**YPDN 23/02**

<b>AERODROME:</b>	<b>RAAF Base Darwin / Darwin International Airport</b>
<b>PROJECT DESCRIPTION:</b>	<b>P0009 - National Airfields Works at RAAF Base Darwin - Package 1 - RWY 11-29 Reconstruction</b>
<b>DATES:</b>	
<b>Approval of MOWP</b>	<b>31 July 2023</b>
<b>Revision Date</b>	<b>26 May 2025</b>
<b>Commencement of works</b>	<b>15 August 2023</b>
<b>Completion of works</b>	<b>30 June 2025</b>
<b>Expiry of MOWP</b>	<b>30 June 2025</b>

## CHANGE REGISTER

This Change Register has been developed in accordance with Part 139 (Aerodromes) Manual of Standards 2019, to provide guidance to the reader regarding changes between the below two MOWP document revisions:

- Previous revision - MOWP YPDN 23/02 V3.0.2
- Current revision - MOWP YPDN 23/02 V3.0.3

Ref.	Change	MOWP Section	Description	MOWP V3.0.2	MOWP V3.0.3
1	Issue Number.	Throughout	Change of Issue Number.	V3.0.2	V3.0.3
2	Revision Date.	Cover page	Change of Revision Date.	V3.0.2 Revision Date was 20 May 2025.	V3.0.3 Revision Date is 26 May 2025.
3	Stage 30A NOTAM.	3.2.1 RTAO – Stage 30A NOTAM	Change of minimum eye height over the threshold (MEHT).  Change of TODA slope.	NOTAM text detailed a MEHT of 3.0 DEG 52FT.  TODA slope read 2.16.	Current NOTAM text details a MEHT of 3.0 DEG 65FT.  TODA slope reads 2.14.
4	Stage 30B NOTAM.	3.3.1 RTAO – Stage 30B NOTAM	Change of minimum eye height over the threshold (MEHT).  Change of TODA slope.  RWY 11/29 availability updated.	NOTAM text detailed a MEHT of 3.0 DEG 52FT.  TODA slope read 2.16.  N/A	Current NOTAM text details a MEHT of 3.0 DEG 65FT.  TODA slope reads 2.14.  RWY 11/29 not available for scheduled international air transport operations when Stage 30B is in effect.
5	Contact detail updates.	9.6 Contact Details  11 ANNEX A – DISTRIBUTION LISTS	Change of ABXO SQN contact.  Deletion of Airnorth contact details.  Change of Jeppesen contact.  Deletion of Leidos contact details.	ABXO SQN contact was SQNLDR Andrew Miller.  Airnorth contacts included Andrew Lockett and Georgina Mommers.  Jeppesen contact was Jaime Doherty.  Leidos contact was Braden Blennerhassett.	ABXO SQN contact is SQNLDR Craig Pinkney  Andrew Lockett and Georgina Mommers contacts deleted.  Jeppesen contact email amended.  Braden Blennerhassett contact deleted.

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## **1 METHOD OF WORKING PLAN (MOWP)**

### **1.1 Purpose of the MOWP**

CASA Part 139 MOS – Aerodromes requires operators of a certified aerodrome to make all necessary arrangements to ensure that aerodrome works do not create a hazard to aircraft or cause confusion to pilots. Furthermore, an aerodrome operator must not carry out aerodrome works without a MOWP unless the works are of a time-limited or emergency nature, or the works do not require restrictions to aircraft operations.

To achieve the requirements of CASA Part 139 MOS – Aerodromes, this MOWP has been prepared in accordance with the requirements of CASA Part 139 MOS – Aerodromes, Chapter 16 – Method of Working Plans (CASA, 2019) and ensures that all works conducted are in accordance with Civil Aviation Safety Regulations and CASA Part 139 MOS – Aerodromes and CASA Instrument 07/24 – Darwin Aerodrome (Relevant Activities in Obstacle Restriction Area – Runway 11/29).

## **2 WORKS INFORMATION**

### **2.1 Purpose of the Works**

The Department of Defence (DoD) National Airfield Works Program is a 10 year rolling Airfield Capital Works maintenance program which encompasses the annual pavement maintenance program as well as the capital maintenance projects across all airfields within the Defence Estate. The DoD has a Joint User Deed (JUD) with Darwin International Airport across the Joint User Area (JUA), requiring all works within the JUA to be in accordance with the requirements of the JUD.

The P0009 National Airfield Works at Darwin has the aim of maintaining the network of aircraft pavements, stormwater drainage and Aeronautical Ground Lighting (AGL) at Darwin including the areas within the Joint User Area.

### **2.2 Description of the Works**

The scope of works covered in this MOWP includes the Runway 11-29 reconstruction at RAAF Base Darwin / Darwin International Airport as part of the P0009 - National Airfields Works (Package 1 Expedited Runway Works) at RAAF Base Darwin and Mount Bunde Airfield project (P0009).

A series of reviews will be conducted through workshops during the project to review productivity, operations and refine procedures and timelines for the remaining stages. The MOWP will be updated and distributed accordingly following the reviews.

## 2.3 Definitions

A table of MOWP YPDN 23/02 specific definitions is provided below.

<b>Package</b>	Package: The P0009 RAAF Darwin Works are broken up into two (2) Packages. Package 1 is the focus of this MOWP YPDN 23/02, including pavement reconstruction and overlay works to Runway 11-29. Package 1 will enable the runway width to be reduced from 60m to 45m for reclassification to a Code 4E runway.
<b>Stage</b>	Stage: All works conducted within a specific duration. Stage drawings at Annex B illustrate the conditions and associated information of the airfield during the Stage depicted, whilst indicating the location of the work zones contained within that Stage. The MOWP is restricted to working under only one (1) Stage per work shift. The Stage Sequencing is presented in <b><u>1.5 Works sequence</u></b> .
<b>Phase</b>	Phase: A series of Stages, describing the works progress. There are four (4) phases under MOWP YPDN 23/02: <ul style="list-style-type: none"> <li>▪ Main Construction,</li> <li>▪ Cut Over of AGL for the new 45m runway width requirements,</li> <li>▪ Grooving and</li> <li>▪ Remaining AGL Works.</li> </ul>
<b>Zone</b>	Zone: Areas of work within a Stage, dependent on the Stage in effect. Numerical Zones describe on pavement work areas within the graded runway strip. Alphabetical Zones describe off pavement work areas outside of the graded runway strip, identified by the gable markers
<b>RTS</b>	RTS: Return to Service. Describes a work activity / shift in which the works contractor is required to vacate and reinstate the work areas (zones) back to a nominated extent and to allow for aircraft traffic as detailed within the Stage description and associated NOTAM.

## 2.4 Times and Dates

Note that all Shift Times and Dates presented in MOWP YPDN 23/02 are in Local Darwin time (Australian Central Standard Time).

## 2.5 Work Activities

The asphalt pavement section of Runway 11-29 at RAAF Base Darwin (the primary and longest runway for long-haul and wide body aircraft movements) needs jointly required capital works as aspects of the runway surface, and the underlying pavement, are at the end of their serviceable life.

Works under this Project include reconstructed asphalt pavements, asphalt overlays, construction of a new drainage network and associated Runway Airfield Ground Lighting (AGL) works to Runway 11-29.

The planned works may include but are not limited to pavement, electrical works, drainage works, survey or geological investigation and will be undertaken within a prescribed MOWP stage.

Phases	Stages	Key Activities
Main Construction	Stages complete	<ul style="list-style-type: none"> <li>▪ Pavement reconstruction.</li> <li>▪ Asphalt overlays.</li> <li>▪ Drainage installation inclusive of subsoil drain, swale and stormwater pipes and culverts.</li> <li>▪ Airfield Ground Lighting (AGL) removal / protection.</li> <li>▪ AGL installation inc. cabling.</li> <li>▪ Grooving activities.</li> <li>▪ Duct bank works under RWY 18/36.</li> </ul>
Cut Over	Stage complete	<ul style="list-style-type: none"> <li>▪ Pre-commissioning of AGL whilst existing 60m wide RWY lighting remains.</li> <li>▪ Cut Over from 60m wide RWY lighting to new 45m wide RWY lighting.</li> </ul>
Grooving	Stages complete	<ul style="list-style-type: none"> <li>▪ Grooving of all new pavement works as soon as practicable (8 - 10 weeks after laying of asphalt) following the completion of the main construction pavement stages.</li> <li>▪ Decommissioning of redundant 60m wide RWY lighting.</li> <li>▪ Installation of inset AGL within Runway 11-29 grooving extent.</li> </ul>
Remaining AGL works	28, 30A, 30B	<ul style="list-style-type: none"> <li>▪ Demolition of redundant 60m wide RWY lighting, installation of DTRM sign faces and TWY C3 AGL works.</li> </ul>

The actual date and time of commencement will be advised by a NOTAM, to be issued not less than 48 hours before work commences.

*Note: Environmental management requirements are covered under Section 3.6 and 3.10 and all works are to be covered by the P0009 CEMP and approved Environmental Clearance Certificate.*

2.6 Works sequence

A detailed Works sequence is provided in the proceeding sub-sections and presented per Stage. The below Table summarises the overall Works sequence.

Phases	Stage Sequence	Start	End
Remaining AGL works	Stage 28	01-Jun-25	30-Jun-25
Remaining AGL works	Stage 30A	24-May-25	31-May-25
Remaining AGL works	Stage 30B	25-May-25	31-May-25

**\*Note that works in Stage 30B, will occur under RTS (return to service) and will revert back to Stages described below.**

For Stage 30B; the RTS (return to service) arrangement will be Stage 30A.



### 2.6.1 Works sequence – Stage 28

<b>Planned dates</b>	01-Jun-25 to 30-Jun-25	<b>Drawing</b>	ANNEX B – STAGE 28
<b>Phase</b>	Remaining AGL works	<b>RWY 11-29 TORA</b>	Full length available
<b>Zones</b>	On-pavement: Off-pavement (drainage): Off-pavement (AGL): E	<b>Shift timing</b>	From 0600 Local on 01-Jun-25 to 1700 Local on 31-Jun-25.
<b>Activities</b>	Removal of redundant AGL following the AGL cutover to the new system.  Select works requiring Runway 11-29 Graded Strip entries under Time Limited Works including light fitting removal, DTRM sign face installation, TWY C3 AGL works and augmentation of the current permanent displacement field infrastructure.		
<b>Displaced Threshold</b>	Full length available		

### 2.6.2 Works sequence – Stage 30A

<b>Planned dates</b>	24-May-25 to 31-May-25	<b>Drawing</b>	ANNEX B – STAGE 30A
<b>Phase</b>	Remaining AGL works	<b>RWY 11-29 TORA</b>	29 RWY 2589 m 11 RWY 2589 m
<b>Zones</b>	On-pavement: 7, 8 Off-pavement (drainage): n/a Off-pavement (AGL): E	<b>Shift timing</b>	From 1000 Local on 24-May-25 to 1800 Local on 31-May-25.  From 0030 UTC on 24-May-25 to 0830 UTC on 31-May-25
<b>Activities</b>	Lift and respacing of Taxiway C3 AGL lead-out centreline lights. Works proceeding past the works limit markers to be performed under Time Limited Works.		
<b>Displaced Threshold</b>	DTHR11 by 824 m / 765 m W END RWY 11/29 CLOSED. DTHR11 at CH 824. Temp Displaced Threshold at the RWY 11 end during the entirety of Stage 30A. 240m RESA behind the DTHR11.		

### 2.6.3 Works sequence – Stage 30B

<b>Planned dates</b>	25-May-25 to 31-May-25	<b>Drawing</b>	ANNEX B – STAGE 30B
<b>Phase</b>	Remaining AGL works	<b>RWY 11-29 TORA</b>	29 RWY 2589 m 11 RWY 2589 m
<b>Zones</b>	On-pavement: 6, 7, 8 Off-pavement (drainage): n/a Off-pavement (AGL): E	<b>Shift timing</b>	Indicative shift times (Local) to work around scheduled international flight movements.  25-May-25 1710 to 0000  26-May-25 1710 to 0100 (next day)  27-May-25 to 31-May-25 1710 to 2320
<b>Activities</b>	Lift and respacing of Taxiway C3 AGL lead-out centreline lights.		
<b>Displaced Threshold</b>	DTHR11 by 824 m / 765 m W END RWY 11/29 CLOSED. DTHR11 at CH 824. Temp Displaced Threshold at the RWY 11 end during the entirety of Stage 30B. 130m RESA behind the DTHR11.		

### 3 RESTRICTIONS TO AIRCRAFT OPERATIONS (RTAO)

#### 3.1 RTAO - Stage 28

<b>Planned dates</b>	01-Jun-25 to 30-Jun-25	<b>Drawing</b>	ANNEX B – STAGE 28
<b>Phase</b>	Remaining AGL works	<b>RWY 11-29 TORA</b>	Full length available
<b>Zones</b>	On-pavement: Off-pavement (drainage): Off-pavement (AGL): E	<b>Shift timing</b>	From 0600 Local on 01-Jun-25 to 1700 Local on 30-Jun-25.
<b>Activities</b>	Removal of redundant AGL following the AGL cutover to the new system.  Select works requiring Runway 11-29 Graded Strip entries under Time Limited Works including light fitting removal, DTRM sign face installation, TWY C3 AGL works and augmentation of the current permanent displacement field infrastructure.		
<b>Restrictions: Manoeuvring Area</b>			
<b>Runways</b>	N/A		
<b>Taxiways</b>	N/A		
<b>Aircraft type restrictions</b>	All aircraft.		

##### 3.1.1 RTAO - Stage 28 NOTAM

Stage 28 NOTAM	
<b>Remarks (Details of any special restrictions and the requirements for the issue of NOTAMs)</b>	

### 3.2 RTAO - Stage 30A

<b>Planned dates</b>	24-May-25 to 31-May-25	<b>Drawing</b>	ANNEX B – STAGE 30A
<b>Phase</b>	Remaining AGL works	<b>RWY 11-29 TORA</b>	29 RWY 2589 m 11 RWY 2589 m
<b>Zones</b>	On-pavement: 7, 8 Off-pavement (drainage): n/a Off-pavement (AGL): E	<b>Shift timing</b>	From 1000 Local on 24-May-25 to 1800 Local on 31-May-25.  From 0030 UTC on 24-May-25 to 0830 UTC on 31-May-25
<b>Activities</b>	Lift and respacing of Taxiway C3 AGL lead-out centreline lights. Works proceeding past the works limit markers to be performed under Time Limited Works.		
<b>Restrictions: Manoeuvring Area</b>			
<b>Runways</b>	DTHR11 by 824 m / 765 m W END RWY 11/29 CLOSED. DTHR11 at CH 824. Temp Displaced Threshold at the RWY 11 end during the entirety of Stage 30A. 240m RESA behind the DTHR11.		
<b>Taxiways</b>	Taxiway A1 closed, north of TWY W. Taxiway C3 closed. Taxiway C4 closed.		
<b>Aircraft type restrictions</b>	RWY29 intersection departure from TWY D available (with new RDS data).  RWY29 intersection departure from TWY E1 and E2 available to Light Single Engine Aircraft Only.		

**3.2.1 RTAO - Stage 30A NOTAM****Stage 30A NOTAM**

THR RWY 11 DISPLACED 824M DUE WIP  
RWY 11/29 OPR LEN REDUCED BY 765M WESTERN END  
DISPLACED THR MARKED BY GREEN THR LGT EACH SIDE OF RWY HN AND  
RWY THR IDENT LGT HJ, PILOT MNT  
OBST 15FT AGL ON RWY 2919M FM START OF TORA RWY 29

## DECLARED DISTANCE AND GRADIENT CHANGES

RWY	TORA	TODA	ASDA	LDA
11	2589 (8494)	2679 (8789) (2.14)	2589 (8494)	2530 (8300)
29	2589 (8494)	2679 (8789) (2.0)	2589 (8494)	2589 (8494)

## SUPPLEMENTARY TKOF DIST:

RWY 11- 2308 (7572) (1.6) 2524 (8281) (1.9)  
RWY 29- 2587 (8487) (1.6) 2662 (8733) (1.9)  
RWY 11 TKOF TO COMMENCE AT RED LGTS HN AND RED AND WHITE CONES HJ  
RWY 29 DIST TO RUN MARKERS U/S WHEN 11 THR DISPLACED  
RWY 29 TWY D, E1 AND E2 TKOF RUN AVBL SIGNS U/S WHEN 11 THR DISPLACED  
REFER METHOD OF WORKING PLAN (MOWP) YPDN 23/02 STAGE 30A

PAPI RWY 11 U/S WHEN THR DISPLACED  
RWY 11 TEMPO PAPI AVBL 3.0 DEG 65FT  
RWY THR IDENT LGTS AND TEMPO PAPI PILOT MNT  
REFER METHOD OF WORKING PLAN (MOWP) YPDN 23/02

TWY A1, C3, C4 CLOSED DUE DISPLACED THR RWY 11  
REFER METHOD OF WORKING PLAN (MOWP) YPDN 23/02

**Remarks (Details of any special restrictions and the requirements for the issue of NOTAMs)**

RWY 11/29 remains Code 4 Runway (Instrument/Non-Precision).  
RWY 11/29 WESTERN AAS NOT AVBL WHEN 11 THR DISPLACED  
TWY A1 AVBL MIL ACFT FOR ACCESS TO TWY W AND X

### 3.3 RTAO - Stage 30B

<b>Planned dates</b>	25-May-25 to 31-May-25	<b>Drawing</b>	ANNEX B – STAGE 30B
<b>Phase</b>	Remaining AGL works	<b>RWY 11-29 TORA</b>	29 RWY 2589 m 11 RWY 2589 m
<b>Zones</b>	On-pavement: 6, 7, 8 Off-pavement (drainage): n/a Off-pavement (AGL): E	<b>Shift timing</b>	Indicative shift times (Local) to work around scheduled international flight movements.  25-May-25 1710 to 0000  26-May-25 1710 to 0100 (next day)  27-May-25 to 31-May-25 1710 to 2320
<b>Activities</b>	Lift and respacing of Taxiway C3 AGL lead-out centreline lights.		
<b>Restrictions: Manoeuvring Area</b>			
<b>Runways</b>	DTHR11 by 824 m / 765 m W END RWY 11/29 CLOSED. DTHR11 at CH 824. Temp Displaced Threshold at the RWY 11 end during the entirety of Stage 30B. 130m RESA behind the DTHR11.		
<b>Taxiways</b>	Taxiway A1 closed, north of TWY W. Taxiway C3 closed. Taxiway C4 closed.		
<b>Aircraft type restrictions</b>	RWY29 intersection departure from TWY D available (with new RDS data).  RWY29 intersection departure from TWY E1 and E2 available to Light Single Engine Aircraft Only.		

3.3.1 RTAO - Stage 30B NOTAM

Stage 30B NOTAM

THR RWY 11 DISPLACED 824M DUE WIP  
RWY 11/29 OPR LEN REDUCED BY 765M WESTERN END  
RWY 11/29 NOT AVBL FOR SCHEDULED INTERNATIONAL AIR TRANSPORT OPS  
DISPLACED THR MARKED BY GREEN THR LGT EACH SIDE OF RWY HN AND  
RWY THR IDENT LGT HJ, PILOT MNT  
OBST 15FT AGL ON RWY 2919M FM START OF TORA RWY 29

DECLARED DISTANCE AND GRADIENT CHANGES

RWY	TORA	TODA	ASDA	LDA
11	2589 (8494)	2679 (8789) (2.14)	2589 (8494)	2530 (8300)
29	2589 (8494)	2679 (8789) (2.0)	2589 (8494)	2589 (8494)

SUPPLEMENTARY TKOF DIST:

RWY 11- 2308 (7572) (1.6) 2524 (8281) (1.9)  
RWY 29- 2587 (8487) (1.6) 2662 (8733) (1.9)  
RWY 11 TKOF TO COMMENCE AT RED LGTS HN AND RED AND WHITE CONES HJ  
RWY 29 DIST TO RUN MARKERS U/S WHEN 11 THR DISPLACED  
RWY 29 TWY D, E1 AND E2 TKOF RUN AVBL SIGNS U/S WHEN 11 THR DISPLACED  
REFER METHOD OF WORKING PLAN (MOWP) YPDN 23/02 STAGE 30B

PAPI RWY 11 U/S WHEN THR DISPLACED  
RWY 11 TEMPO PAPI AVBL 3.0 DEG 65FT  
RWY THR IDENT LGTS AND TEMPO PAPI PILOT MNT  
REFER METHOD OF WORKING PLAN (MOWP) YPDN 23/02

TWY A1, C3, C4 CLOSED DUE DISPLACED THR RWY 11  
REFER METHOD OF WORKING PLAN (MOWP) YPDN 23/02

Remarks (Details of any special restrictions and the requirements for the issue of NOTAMs)

RWY 11/29 remains Code 4 Runway (Instrument/Non-Precision).  
RWY 11/29 WESTERN AAS NOT AVBL WHEN 11 THR DISPLACED  
TWY A1 AVBL MIL ACFT FOR ACCESS TO TWY W AND X

#### **4 DECLARED EMERGENCIES AND ADVERSE WEATHER**

All work zones can only be conducted during normal visual meteorological conditions (VMC) and will be terminated during periods of reducing visibility in accordance with Darwin Airports low visibility procedures.

The work sequence is to be managed in order to enable vacate of works site within 30 minutes with no return to operational status.

ARFF vehicles responding to a declared emergency will have access to the works site under direction of WSO.

Under the direction of Air Traffic Control (ATC), DIA ARO or Base Aviation Safety Officer (BASO), the Works Safety Officer (WSO) is responsible for instructing the works contractor to vacate the work site in the event of a declared emergency.

Note that provision of AFIS includes SARWATCH, In-Flight Emergency Response (IFER) and Alerting Services outside operational ATC hours. The AFIS controller will pass/receive emergency details as required including passing details of arriving emergency aircraft to the DIA Safety Officer and ARFF.

The WSO is to remain in contact with ATC (during operational hours) and or monitor the CTAF frequency 133.1, when ATC is not active.

Weather conditions including thunderstorms will be monitored by the WSO via BOM and / or thunderstorm alerting software.

The WSO, in consultation with the Works Contractor, will advise ATC whether reinstatement of the manoeuvring area is possible or not possible.

Works will not be carried out during periods where Low Visibility Operations are declared. All stages could be adversely affected by wet weather and may result in delays or temporary stoppages of the works.

All works are to vacate the airfield when lightning is within 5 nautical miles of the aerodrome, WSO to direct the Works Contractor.



## 5 NOTAM

The ADG Airside Manager or approved delegate is responsible for approving and issuing the NOTAM for each stage of the works.

DIA will confirm that the NOTAM has been raised for the relevant stage of the works prior to the commencement.

The NOTAM per Work Stage is described in the above section, **2 RESTRICTIONS TO AIRCRAFT OPERATIONS (RTAO)**.

The actual date and time of commencement will be advised by a NOTAM, to be issued not less than 48 hours before work commences.

## 6 Return To Service Timings

During periods where the runway is displaced under RTS conditions the commencement time of the displacement has been set to ensure works are able to be conducted with minimal disruption to operators. Given the complexity of the staging and scope of works these times are fixed, with any changes to timings having impacts to the works program. The DIA Scheduling Guidelines, as published on the Airport Coordination Australia website has been amended to reflect the timings.

In the event that a late arrival/departure will be impacted by the commencement of the displacement, the decision to defer the works is at the discretion of the DoD. Upon realisation of a late arrival/departure, the operator is to notify the DIA Airport Duty Manager of the delay, this will trigger a notification process with DoD to make an assessment and ultimate decision on the displacement taking place at the scheduled timing. Operators are to be aware that any late arrival/departure may result in cancelation of inbound and/or outbound flights.

## **7 PERSONNEL AND EQUIPMENT**

### **7.1 General**

The works are to take place on and in the vicinity of aircraft manoeuvring areas and the specific requirements of this MOWP and conditions contained within CASA 07/24 – Darwin Aerodrome (Relevant Activities in Obstacle Restriction Area – Runway 11/29), together with site instructions from the Works Safety Officer (or the DIA Terminal and Airside Operations Officer) must be strictly followed at all times.

While at the work site, all vehicles, plant and personnel must remain within the limits of the designated works area. All vehicles and plant not actually engaged in the works are to be parked clear of the works and movement area in an area nominated by the Works Safety Officer.

The limits of the work areas are to be defined by row of orange road markers (non-reflective witches' hats) and lights in accordance with Part 139 MOS, across the runways or taxiways in accordance with the relevant NOTAM. The Works Organisation must not move beyond these lines.

Works are to comply with the Fulton Hogan Work Health and Safety Plan for the project, including all requirements for Personal Protective Equipment (PPE).

Smoking is not permitted airside or within any restricted areas of the aerodrome.

### **7.2 Control of Works Personnel, Security and Safety of Aircraft Operations**

All personnel associated with the work are bound by any instructions issued by the WSO, who has the right to refuse access to persons likely, in his/her opinion, to compromise aircraft safety on the airfield.

Any breaches of aviation safety and aircraft safety occurrences (not detected by the WSO) must be reported to the WSO.

The WSO must initiate an immediate response in consultation with ATC, ADG-DIA (Safety 1) and the BASO.

The BASO will prepare and submit an Aviation Safety Report (ASR) if required, and provide details to the P0009 PMCA, Defence personnel and the ADG Head of Airport Operations.

### 7.3 Vehicles and Plant

Vehicles and plant used for these works will include various vehicles, trucks, and trailers; asphalt profiler and paver; and suction sweeper. All vehicles plant and equipment used for airside access are to be fitted with flashing beacons and use dipped headlights during nightworks. Vehicles and equipment used in these works are not to exceed the equipment maximum heights above ground level detailed in each Stage Drawing.

No movement of vehicles or plant is to take place outside the works areas or access routes without the consent of the WSO. Only vehicles and plant engaged in the work activities shall be permitted at the work site. Private vehicles will not be permitted at the airside work site.

At the end of each work period, all vehicles, plant, equipment, and material are moved clear of the works area and parked in the designated parking area.

Vehicles and self-propelled items of plant are to have vehicle warning lights as detailed in CASR MOS Part 139 Section 14.05: Airside vehicle lighting requirements.

The Works Contractor Vehicle Management Plan is to be developed and approved by DIA and RAAF Darwin prior to any works commencing.

### 7.4 Critical and Sensitive Areas - CNS Equipment

The Glide Path will be switched-off by Airservices during all works stages at the eastern end (Displaced Thresholds - RWY 29), and the Localiser will be switched-off during all works stages at the western end (Displaced Thresholds – RWY 11) and there are no restrictions for vehicles or equipment operating in the proximity of the critical and sensitive areas during the respective works stages.

### 7.5 Access to the Works and Security

Access to all works area is to be agreed with the RAAF BAEO and the WSO. Movement of vehicles, plant and equipment must be confined to designated access routes.

DIA TAOO staff may require access to the work site to conduct wildlife hazard management. These activities could include the use of flashing lights, sirens and discharge of firearms and will be conducted in consultation with the WSO.

All personnel are to have on their person and visible at all times a valid security pass issued by the RAAF Base Darwin Pass Office or equivalent in accordance with DI (AF) ADMIN 14-7 – Visits to Air Force Establishments.

Personnel are only permitted to move about the designated work areas, and only using the designated access routes. Any person detected on the site outside these limits may be evicted from the site and denied return.

All works at RAAF Base Darwin are to be conducted in accordance with:

1. DAR SI(ADMIN) 14-01 – *Visits to RAAF Base Darwin*

2. DAR SI(ADMIN) 09-10 – *Photography-imagery at RAAF Base Darwin*
3. DAR SI(LOG) 14-01 – *Request to Conduct Works*
4. DAR Aerodrome Manual – *Aerodrome works Safety/Management*

Additional instructions maybe applicable for specific works; the Contractor is to consult with the RAAF BAEO prior to undertaking works for access to the abovementioned documents.

## **7.6 Visual Ground Aids**

Markings, markers, and ground lighting are not to be installed, altered, or removed without the approval of the Works Safety Officer. Any markings or markers that are required to be moved or removed due to works in progress must be advised to the DIA Terminal and Airside Operations Officer and reinstated prior to the completion of the works shift.

Any accidental damage to the markers must immediately be reported to the Works Safety Officer and to the DIA Terminal and Airside Operations Officer.

## **7.7 Works Permits**

To prevent damage to airport lighting systems and other airport facilities the Defence Personnel must obtain dig permits from the local Defence Support; contact Mr Jeff Grose, prior to undertaking any excavation on the site.

All works are to be undertaken in accordance with the P0009 Construction Environmental Management Plan (CEMP) and approved Environmental Clearance Certificate (ECC).

## **7.8 Protection of Electrical Services**

The Contractor must confirm the location of all underground services within the vicinity of the works to be undertaken. Any works on or near electrical cables must be referred to the DIA Technical Team Leader a minimum of 48 hours prior to commencement of works to arrange all necessary isolations or temporary connections.

## **7.9 Crane Permit**

A permit must be obtained prior to erection of any crane on airport and/or use of equipment that will exceed the equipment maximum heights above ground level detailed in each Stage Drawing.

Applications for approval must be sent to [DIA.TAOO@adgnt.com.au](mailto:DIA.TAOO@adgnt.com.au)

### **7.10 Other Restrictions**

All loose material and equipment must be secured against movement in strong winds or aircraft propeller wash or jet blast.

Any damage to aerodrome facilities or property must be reported immediately to the Works Safety Officer and the DIA Terminal and Airside Operations Officer.

Personnel and equipment may need to partially withdraw from a work area to avoid propeller wash or jet blast from a departing or passing aircraft. The Works Safety Officer will direct the Works Contractor to vacate to a safe working distance before aircraft movement.

### **7.11 Environmental**

Environmental impacts have been assessed with controls documented within the Fulton Hogan P0009 Construction Environmental Management Plan (CEMP), approved Environmental Clearance Certificate (ECC) and the DIA / RAAF Base Darwin Wildlife Hazard Management Plan.

### **7.12 Foreign Object Debris (FOD) Control**

The Works Contractor is to ensure that aircraft pavements used or crossed during the works are kept clean and free of debris. Any debris is to be immediately removed by the Works Contractor to the satisfaction of the WSO.

All loose material and equipment are to be secured against movement in strong winds or aircraft blast. Measures shall be taken at all times for control of dust or other nuisance materials and the Works Contractor shall immediately respond to any direction by the DIA Terminal and Airside Operations Officer, WSO, BAEO or BASO to eliminate any problem. The Works Contractor is responsible for implementing appropriate control measures.

On completion of each work period where airfield movement areas are required to be returned to active use, the Works Contractor is to ensure the works area is made serviceable, including the removal of all FOD hazards, to the satisfaction of the WSO.

Prior to vacating the work site when returning a works area back to service, a joint inspection will occur inclusive of a DIA representative, RAAF Darwin representative and the WSO at the end of each shift. Following the joint written approval of the suitability of the works area for aircraft activity, the Works Contractor will vacate the work site.

## **8 AERODROME MARKERS, MARKINGS and LIGHTS**

The works contractor shall mark, paint, and light the unserviceable areas of the airfield affected by the works in accordance with the requirements of CASA Part 139 MOS – Aerodromes and this will be reviewed by RAAF Base Darwin / Darwin International Airport.

The Works Contractor is responsible for deploying and removing all AGL, works limit markings (non-reflective orange witches' hats) and temporary runway end markers (red and white cones).

The works contractor is responsible for deploying and removing 36m high unserviceability markers (white crosses) for the temporary runway closures and displaced thresholds.

Aerodrome markers, markings, and lights (visual aids) associated with this MOWP are detailed in the following subsections. All markers are to be appropriately secured against jet blast and or high winds.

### **8.1 Unserviceability Markers**

Closed portions of the manoeuvring area will be marked by red and white unserviceability markers (refer to CASA Part 139 MOS Section 8.108) during the day, and red lights at night.

Unserviceability markers for the runway (white crosses) are recommended by CASA Part 139 MOS at international and frequent aircraft movement aerodromes. These will accompany the temporary runway threshold displacements for RWY 11-29 and partial runway closures of RWY 11-29.

### **8.2 Works Limit Markers**

The limit of works is marked with Works limit markers – non-reflective orange witches' hats (and orange lights at night). The installation of the Works Limits markers is the responsibility of the Works Contractor. All personnel (and equipment) must remain within the designated works area, this includes when working in the runway strip.

A clearance from ATC when active or broadcast on CTAF when ATC not active, to enter the runway is required to proceed past the limit of works markers and/or lights, this includes to access the portion of the runway between the limit of works and the red and white cones.

### **8.3 Lighting**

All lighting within and directly leading into the closed portion of the manoeuvring area will be obscured or extinguished by the Works Contractor as instructed by the WSO. The contractor shall make sure not obscure or move any temporary runway or taxiway lighting associated with the works.

#### **8.4 RWY 11-29 Temporary Displaced Thresholds**

Temporary displaced threshold markings ("Vee-bars") are not required for the displacement of RWY 29 threshold which are indicated with Runway Threshold Identification Lights (RTIL) for scheduled international transport operations which is in accordance with Part 139 (Aerodromes), MOS Section 8.27(3).

RTIL must be placed as detailed in CASA Part 139 MOS Section 9.59 (5) will be used to identify temporarily displaced thresholds (green threshold lights each side of the runway at night).

#### **8.5 RWY 11-29 Temporary PAPIs**

Temporary PAPI wing bars (double-sided PAPI's) shall be installed for non-RTS Stages as per CASA Part 139 MOS Section 9.44, to service the agreed runway threshold displacements for RWY 11-29, with runway threshold displacements as stated in preceding sections of this MOWP.

Temporary PAPI wing bar (single-sided PAPI) shall be installed for non-RTS Stages as per CASA Part 139 MOS Section 9.44 (3)(4), when there is a physical obstruction and a double-sided PAPI is not reasonably practical to be installed.

Temporary PAPI wing bars (single-sided PAPI's) shall be installed for RTS Stages as per CASA Part 139 MOS Section 9.44, to service the agreed runway threshold displacements for RWY 11-29, with runway threshold displacements as stated in preceding sections of this MOWP.

The location of the temporary PAPI wing bars is indicated on the drawings included in Appendix B.

The deployment of the temporary PAPI wing bars shall be by the Works Contractor, with the necessary survey associated with the deployment of the wing bar to be arranged by the Works Contractor.

#### **8.6 Works within the Runway Strip**

Works within the Runway 11-29 Strip are only to occur in accordance with CASA 07/24 – Darwin Aerodrome (Relevant Activities in Obstacle Restriction Area – Runway 11/29) and as detailed in the Stage's work extents, Stage's working times, and maximum vehicle heights.

Works within the Runway 18-36 Strip will remain clear of the transitional surfaces at all times, subject to WSO approval.

## 9 ADMINISTRATION

### 9.1 Design Consultant (DC)

The Design Consultant for P0009 is **Aurecon Australasia Pty Limited (Aurecon)**. The Works Organisation and WSO are subsequently sub-contractors as per sub-contractor agreements.

The DC Consultant's Representative for P0009 is Mr Tim Meinecke [not on site]. The DC's on-site Representative is included in the table in section **9.6 Contact Details**.

The Design Consultant's Representative may be contacted on the following numbers:

Mobile: +61 425 794 411

Email: [tim.meinecke@aurecongroup.com](mailto:tim.meinecke@aurecongroup.com)

### 9.2 Works Organisation / Contractor

The Contractor's Project Manager will be Mr Edward Callaghan (Mobile: 0439 281 658)

The Contractor's Works Manager will be Mr Dayne Clarke (Mobile: 0429 000 743)

The Fulton Hogan duty phone number will be (Mobile: 0499 573 099)

The Contractor's Works Manager or his/her delegate must be present on site during all work periods and is responsible for complying with the requirements of this MOWP.

All contact, with the Base, by the Contractor, in relation to the work, is to include PMCA and the E&IG Project Officer.

### 9.3 Project Manager Contract Administrator (PMCA)

The PMCA for P0009 is Mr Pete Muir [not on site].

The PMCA may be contacted on the following numbers:

Mobile: +61 401 348 371

Email: [pete.muir@beca.com](mailto:pete.muir@beca.com)

The PMCA's on-site Representative is included in the table in section **9.6 Contact Details**.



## 9.4 Works Safety Officer

The nominated Works Safety Officers (WSOs) for these works will be from Tarmac Aerodrome Operations.

The Tarmac Aerodrome Operations lead WSO will be Jason Dechaineux (Mobile: 0429 467 481) and Tarmac Aerodrome Operations will be responsible for the operational safety of the works for RTS shifts, non-RTS shifts and outside of scheduled working hours.

A joint DIA and RAAF approval process for WSOs is in place for works within the JUA. A letter is to be provided to DIA by the Base Aviation Safety Officer (BASO) to confirm that the nominated WSO has the appropriate level of training to undertake the tasks as detailed in this MOWP.

The WSO contact details are included in section **9.6 Contact Details**.

The WSO is responsible for the operational safety of the works and carrying out WSO duties in accordance with the requirements CASA MOS Part 139 13.04 Works safety officer; and 15.04 Management and Control of Aerodrome Works, CASA 07/24 – Darwin Aerodrome (Relevant Activities in Obstacle Restriction Area – Runway 11/29) and this MOWP.

The WSO must be present on site at all times while work is in progress.

The WSO must maintain radio communications with Darwin SMCV on 119.55 MHz when ATC is active in accordance with procedures agreed with RAAF ATC and monitor CTAF 133.1 when ATC not active.

The WSO must have a copy of this MOWP accessible at all times.

## 9.5 Base Aviation Safety Officer

The BASO will provide airside induction training to the personnel involved in carrying out any works on the manoeuvring areas, including competency check of WSOs involved in these works.

The BASO will be the main point of contact for any aviation safety issues during the Works.

The BASO for the works will be FLGOFF Patrick Tanner (Acting).

## 9.6 Contact Details

RAAF Base Darwin – 13 Squadron		
CO 13 Squadron SADFO	WGCDR Lauren Guest	T: 08 8974 4474 M: 0408 485 621 E: <a href="mailto:Lauren.guest@defence.gov.au">Lauren.guest@defence.gov.au</a>
Air Base Executive Officer	SQNLDR Craig Pinkney	M: 0407 615 214 E: <a href="mailto:craig.pinkney@defence.gov.au">craig.pinkney@defence.gov.au</a>
Base Aviation Safety Officer	FLGOFF Patrick Tanner (Acting)	M: 0458 134 234 E: <a href="mailto:dar.baso@defence.gov.au">dar.baso@defence.gov.au</a>
Base Airfield Engineering Officer	FLGOFF Patrick Tanner	M: 0458 134 234 E: <a href="mailto:patrick.tanner@defence.gov.au">patrick.tanner@defence.gov.au</a>
RAAF ATC - 452 SQN DAR FLT		
452SQN DAR FLT CDR	SQNLDR James Lee	T: 08 7929 4671 M: 0408 892 476 E: <a href="mailto:452sqndar.fltcdr@defence.gov.au">452sqndar.fltcdr@defence.gov.au</a>
452SQN DAR FLT OPS CDR	SQNLDR Stephanie Gartshore	T: 08 7929 4673 (APP SPVR) M: 0408 809 864 E: <a href="mailto:452sqndar.opscdr@defence.gov.au">452sqndar.opscdr@defence.gov.au</a>
ATC Duty Controller	Various	T: 08 7929 4816 (TWR SPVR) E: <a href="mailto:dar.atc@defence.gov.au">dar.atc@defence.gov.au</a>
CFI		
Director General Capital Facilities and Infrastructure	BRIG Matthew Quinn	E: <a href="mailto:matthew.quinn@defence.gov.au">matthew.quinn@defence.gov.au</a>
Director – National Projects	GPCAPT Sunil Narayan	M: 0451 131 844 E: <a href="mailto:sunil.narayan@defence.gov.au">sunil.narayan@defence.gov.au</a>
Project Director - National Airfield Projects	SQNLDR Rebecca Sweeney	E: <a href="mailto:rebecca.sweeney2@defence.gov.au">rebecca.sweeney2@defence.gov.au</a>
Senior Project Officer - National Airfields Projects	Stephen Harmer	E: <a href="mailto:stephen.harmer@defence.gov.au">stephen.harmer@defence.gov.au</a>
Project Manager	Simon Ganter	T: 02 6266 8814 M: 0429 446 538 E: <a href="mailto:simon.ganter1@defence.gov.au">simon.ganter1@defence.gov.au</a>
DEIC		

Base Infrastructure Officer	FLTLT David Champion	M: 0400 821 116 E: <a href="mailto:david.champion2@defence.gov.au">david.champion2@defence.gov.au</a>
<b>DEEP</b>		
Senior Civil Engineer – DEEP	SQNLDR Kathleen Pearce	T: 02 6266 8207 E: <a href="mailto:adf.ces@defence.gov.au">adf.ces@defence.gov.au</a>
Assistant Director Aerodrome Policy – DEEP	Anthony Wade	T: 08 7374 1538 E: <a href="mailto:Anthony.wade1@defence.gov.au">Anthony.wade1@defence.gov.au</a>
<b>SDD</b>		
Regional Environment and Sustainability Officer	Katina Croft	M: 0409 883 566 E: <a href="mailto:Katina.croft@defence.gov.au">Katina.croft@defence.gov.au</a>
Base Manager – RAAF Base Darwin	Dean Santi	T: 08 7971 0234 M: 0456 212 605 E: <a href="mailto:dean.santi@defence.gov.au">dean.santi@defence.gov.au</a>
Assistant Base Manager	Paul Gibbs	T: 08 8923 7296 E: <a href="mailto:paul.gibbs12@defence.gov.au">paul.gibbs12@defence.gov.au</a>
<b>Darwin International Airport</b>		
Executive General Manager - Airports	Rob Porter	T: 08 8920 1832 E: <a href="mailto:rob.porter@adgnt.com.au">rob.porter@adgnt.com.au</a>
Head of Airside Operations	Melanie Cobbin	T: 0421 601 461 E: <a href="mailto:Melanie.cobbin@adgnt.com.au">Melanie.cobbin@adgnt.com.au</a>
Airside Manager	Van Nguyen	M: 0473 957 650 E: <a href="mailto:van.nguyen@adgnt.com.au">van.nguyen@adgnt.com.au</a>
Aerodrome Safety & Standards Manager	Bob Calaby	M: 0402 088 163 M: <a href="mailto:Bob.calaby@adgnt.com.au">Bob.calaby@adgnt.com.au</a>
<b>Beca Consultants (PMCA)</b>		
PMCA	Pete Muir	T: 07 3117 6694 M: 0401 348 371 E: <a href="mailto:pete.muir@beca.com">pete.muir@beca.com</a>
Project Manager	Fazia R. Moumita	T: 02 8216 4560 E: <a href="mailto:Fazia.Moumita@beca.com">Fazia.Moumita@beca.com</a>
<b>Aurecon Australasia Pty Ltd (DSC)</b>		
Consultant's Representative	Tim Meinecke	M: 0425 794 411 E: <a href="mailto:tim.meinecke@aurecongroup.com">tim.meinecke@aurecongroup.com</a>
Project Manager	James Kelleher	M: 0407 761 987 E: <a href="mailto:james.kelleher@aurecongroup.com">james.kelleher@aurecongroup.com</a>

Design Manager	Kevin Dearden	T: 03 9975 3000 M: 0438 297 771 E: <a href="mailto:kevin.dearden@aurecongroup.com">kevin.dearden@aurecongroup.com</a>
<b>Contractor – Fulton Hogan</b>		
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Works Manager	Dayne Clarke	M: 0429 011 396 E: <a href="mailto:Dayne.Clarke@fultonhogan.com.au">Dayne.Clarke@fultonhogan.com.au</a>
<b>Tarmac Aerodrome Operations (WSO)</b>		
Director	Jason Dechaineux	M: 0429 467 481 E: <a href="mailto:jason@taops.com.au">jason@taops.com.au</a>

## 9.7 Distribution

This MOWP is to be distributed to all of the persons and agencies listed in the Distribution List attached at **ANNEX A**.

## 10 AUTHORITY

### 10.1 Issue

This MOWP is issued in accordance with CASA Part 139 MOS – Aerodromes (CASA, 2019).

All work must be carried out in accordance with these documents and the specific requirements of this MOWP.

### 10.2 Variation

Requests or proposals to vary the MOWP, as well as queries on its content or meaning, are to be directed to the RAAF Base Representative FLGOFF Patrick Tanner and DIA Representative Van Nguyen.

### 10.3 Expiry

This MOWP will remain effective until 31 May 2025 unless extended by amendment.

### 10.4 Approval

Under the authority of the following signatures, this MOWP is approved for release.



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**Rob Porter**  
EGM – Airports  
Airport Development Group

Lauren.Guest

Digitally signed by  
Lauren.Guest  
Date: 2025.05.20  
18:31:15 +09'30'

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**WGCDR Lauren Guest**  
CO 13 Squadron  
RAAF Base Darwin

**11 ANNEX A – DISTRIBUTION LISTS**

<b>RAAF BASE Darwin</b>		
<b>13 SQN – RAAF Darwin</b>		
WGCDR Lauren Guest	SADFO	<a href="mailto:Lauren.guest@defence.gov.au">Lauren.guest@defence.gov.au</a>
SQNLDR Craig Pinkney	ABXO	<a href="mailto:craig.pinkney@defence.gov.au">craig.pinkney@defence.gov.au</a>
SQNLDR William Gibson	Airbase Operations FLTCDR	<a href="mailto:william.gibson@defence.gov.au">william.gibson@defence.gov.au</a>
FLTLT David Champion	Base Infrastructure Advisor	<a href="mailto:Dar.13sqnbia@defence.gov.au">Dar.13sqnbia@defence.gov.au</a> <a href="mailto:David.champion2@defence.gov.au">David.champion2@defence.gov.au</a>
FLGOFF Patrick Tanner	BAEO	<a href="mailto:patrick.tanner@defence.gov.au">patrick.tanner@defence.gov.au</a> <a href="mailto:dar.baео@defence.gov.au">dar.baео@defence.gov.au</a>
FLGOFF Patrick Tanner (Acting)	BASO 13 SQN	<a href="mailto:Dar.baso@defence.gov.au">Dar.baso@defence.gov.au</a>
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SQNLDR Stephanie Gartshore	452SQN DARFLT OPS CDR	<a href="mailto:452SQNDAR.OPSCDR@defence.gov.au">452SQNDAR.OPSCDR@defence.gov.au</a>
452SQN – Various	ATC Duty Controller	<a href="mailto:DAR.ATC@defence.gov.au">DAR.ATC@defence.gov.au</a>
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<b>DEEP</b>		
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<b>Contractor – Fulton Hogan</b>		
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Dayne Clarke	Works Manager	<a href="mailto:dayne.clarke@fultonhogan.com.au">dayne.clarke@fultonhogan.com.au</a>
Ben Vance	Construction Manager	<a href="mailto:ben.vance@fultonhogan.com.au">ben.vance@fultonhogan.com.au</a>
<b>WSO – Tarmac Aerodrome Operations</b>		
Jason Dechaineux	Director	<a href="mailto:jason@taops.com.au">jason@taops.com.au</a>
<b>Darwin International Airport</b>		
Rob Porter	EGM Airports	<a href="mailto:rob.porter@adgnt.com.au">rob.porter@adgnt.com.au</a>
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Melanie Cobbin	Head of Airport Operations	<a href="mailto:Melanie.cobbin@adgnt.com.au">Melanie.cobbin@adgnt.com.au</a>
Bob Calaby	Aerodrome Safety & Standards Manager	<a href="mailto:bob.calaby@adgnt.com.au">bob.calaby@adgnt.com.au</a>
Van Nguyen	Airside Manager	<a href="mailto:van.nguyen@adgnt.com.au">van.nguyen@adgnt.com.au</a>
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