

**Breathing**

Look, listen and feel for breathing.

**CPR**

30 compressions to 2 breaths at 100 compressions/min.

**Defibrillation**

If Automated External Defibrillator (AED) is available, follow voice prompts.

Monitor pulse, respirations and maintain ABC.

4.3.5 **Head Injury**

a. Lay with injured side down, if possible

b. Do not give drugs, water or food

4.3.6 **Stop Bleeding**

a. Apply direct pressure to wound with gloved hands / bandages;

b. If direct pressure insufficient, use a broad bandage to apply constrictive pressure at top of effected limb.

c. Do not remove embedded objects. Use a ring pad around protrusions.

d. Elevate the limb unless broken;

e. Tourniquets not used.

4.3.7 **Chest Injury**

a. Cover sucking chest wounds with a non porous bandage sealed on three sides (acts as one-way valve). If casualty becomes worse, remove the non-porous bandage;

b. Immobilise unstable chest by circumferential bandaging - firm not tight.

c. Posture casualty: Half-sitting with injured side down, if possible.

d. Do not give pain killers

4.3.8 **Wounds**

a. Use clean / sterile dressings

b. Do not remove embedded objects, use a ring pad around protrusions

c. Do not touch or replace internal organs. Cover with a sterile, wet pad (or gladwrap), do not apply pressure.

4.3.9 **Fractures:**

Support and Immobilise

a. Arms: Splint and strap to body;

b. Legs: Splint and strap together.

4.3.10 **Burns:**

Cool and Cover

a. Cool with water - 20 minutes

b. Do not remove material from wound

c. Cover with wet, sterile / non-stick dressing (or gladwrap)

4.3.11 **Shock:**

Casualty looks pale, skin feels cold and clammy

a. Lay conscious casualty on back, elevate legs

b. Maintain normal body temperature

c. Rest, reassure, no alcohol or drugs

4.3.12 **Minor Wounds**

Treat all minor wounds including scratches and cuts (prevent infection)

4.3.13 **Dehydration:**

Dark / pungent urine requires an increase in fluid intake

a. Rest in shade and cool

b. Drink fluids (water is best) - not alcohol / caffeine

4.4 **Acute Care**4.4.1 **Snakebite:**

a. Victim must remain calm. Use pressure Immobilisation Technique.

b. Firmly bandage whole limb. Start atop bite site then bandage limb upwards.

c. Bandage firm but not so tight as to cut off circulation.

d. Do not allow casualty to move - must remain still.

e. Splint the limb, immobilising as you would a fracture.

f. Monitor ABC / level of consciousness & circulation to effected limb.

- 
- 4.4.2 Carbon Monoxide (CO) Poisoning:
- Remove casualty to fresh air - Casualties skin colour may sometimes look normal;
  - If available give concentrated oxygen;
  - Symptoms may include; headache, nausea, drowsiness, confusion;
  - CO is a colourless, odourless, tasteless gas.
- 4.5 **Desert Survival**
- 4.5.1 Immediate Action:
- Activate ELT immediately: and
  - Rest in solid shade 0.3M above ground. (Do not use aircraft interior, if no shade is available then erect a shelter)
- 4.5.2 **Desert Survival Rules:**
- Note: With temperatures above 30DEG C most of the body's water loss is through sweating. The body sweats to cool itself. Survivors must reduce body heat gains to minimise sweating and then procure water at night. Night temperatures may be cold.*
- Rest in shade 0.3M above or 75CM below ground. Avoid gaining heat from ground conduction or hot air layer above ground.
  - Do essential work when sun down and temperature has dropped to about 20DEG C;
  - Stay fully clothed. A single loose layer of clothing minimises heat gains and maximises sweat cooling;
  - Ration water to stay hydrated. Check colour of urine. Dehydrating will impair performance and does not decrease water consumption;
  - Eat only carbohydrates and only if water is available. Avoid greasy or fatty foods;
  - Do not travel unless sure of water. Walking in sun instead of resting in shade will at least halve survival time.
- 4.5.3 **Water Procurement:**
- Sterilise all water sources except plastic bag procurement methods. Instructions for setting up water procurement devices are contained with water transpirator bags.
- TRANSPIRATOR BAGS: Best water procurement device, set up immediately;
  - DESERT STILL: Set up at night;
  - DEW/RAIN;
  - PLANTS: Unreliable source, look for damp patches on trees and insect life; and
  - GROUND WATER: Some indicators are terrain, birdlife, vegetation, animal tracks and insects. Water may exist in rock pools in hills as well as underground, in low lying creek areas.
- 4.6 **Sea Survival**
- 4.6.1 Immediate Action:
- Secure and deploy raft.
  - Activate ELT immediately.
  - Gather useful equipment and board raft (dry if possible).
  - Roll call - locate missing persons.
  - Cut adrift, tie rafts together on 8M line and secure one man to raft.
  - Check raft, adjust sea anchor length to half distance between waves, and in cold weather inflate floor and canopy.
  - Retrieve, secure (to prevent loss if capsized) and inventory equipment.
  - Develop a plan of action.
  - Elect a leader, allocate duties.
- 4.6.2 Allocation of Duties
- A fully loaded liferaft is cramped and uncomfortable.*
- Rotate duties.
  - Exercise, keep occupied and work as a team to minimise discomfort.
  - Allocation of duties should include, lookouts with location aids, raft maintenance, maintaining water devices and food procurement.
  - Plan pyrotechnic operations to avoid damaging raft.
- 4.6.3 Essential Rules For Sea Survival - If Short of Water.
- Ration water to stay hydrated. Check colour of urine, dehydration impairs performance and does not decrease water consumption. Hold reliable water sources in reserve;
  - In hot areas wear clothes dampened during day and remain in shade. This will halve water loss by minimising sweating. Protect eyes and skin against sun. Do not exit raft to swim;
-

- c. Fish should not be eaten if short of water, sun dry until rain provides sufficient water. Fish that have an unusual shape, features or skin instead of scales should not be eaten;
  - d. Avoid seasickness. Use seasick tablets, seasickness will wear off.
  - e. Do not drink seawater, urine or the blood of sea birds.
- 4.6.4 Keep Raft Dry,  
Avoid immersion, foot and raft sores by regularly changing position.
- 4.6.5 Discourage Predators
- a. Do not trail attractive items.
  - b. Discard waste well away from raft at night.
- 4.6.6 Travel.  
A small amount of control is possible by adjusting raft for wind or currents. Deploy sea anchor to travel with the current or retrieve it to travel with the wind.
- 4.7 **Jungle Survival**
- 4.7.1 Immediate Action
- a. Orientate and rendezvous with crew. (Stay fully clothed when moving in jungle);
  - b. If wreckage is hidden, move to nearby clearing to assist SAR.
  - c. activate ELT immediately.
- 4.7.2 Essential Rules For Jungle Survival:
- a. Protection - water and food will be readily available in the jungle but location by SAR will be difficult.
  - b. Set up location aids. Select sites to give location aids best possible ranges. Build fires with smoke to penetrate canopy (refer to "Improvised Aids in Location" section).
  - c. Sterilise water and animal food. Boil water for 5 minutes or use sterilising tablets. Discard animal food that shows any sign of disease. Always cook animal food to kill parasites.
  - d. If food is not recognised as safe, apply edibility test.
    - (i) Discard stinging plants, fungi, plants with milky sap or with the smell of almonds or peaches.
    - (ii) Discard food that irritates sensitive skin areas such as inside of elbow after 5 mins.
    - (iii) Chew a teaspoon quantity and spit out, discard if reaction occurs in 5 minutes.
    - (iv) Eat a teaspoon quantity and discard if reaction occurs in 4 hours and
    - (v) Eat two teaspoons quantities-plant is safe if no reaction occurs in 4 hours.
  - e. Do not travel unless habitation seen nearby or search scaled down. Travel rate can be as slow as 500M/HR. Creeks and ridgelines will give fastest travel. Leave messages at crashsite and camp and blaze trail if travelling.
- 4.7.3 Shelters
- a. A shelter will be required in rain or if overnighing.
  - b. Two taut separated layers of parachute or natural thatching at 60DEG will provide a waterproof shelter.
  - c. A single taut layer of parachute at 45DEG will provide a shower proof shelter.
  - d. Keep off the ground to avoid insects and parasites.
- 4.8 **Cold Weather Survival**
- 4.8.1 Immediate Action:
- a. Adjust clothing - protect hands and head.
  - b. Shelter from high winds. (Aircraft interior will provide windproof shelter but little thermal protection).
- 4.8.2 Essential Rules For Cold Weather Survival
- a. A drop in body core temperature will mentally effect the survivor, impairing work. The onset is difficult to detect and shivering should be taken as the first warning that heat losses must be minimised. Dressed only in flying clothing, survival chances are good, if a thermal windproof shelter is constructed quickly.
  - b. Keep clothing dry. Heat loss from wet clothing is 20 times greater than dry.
  - c. Remove clothing before commencing work to avoid sweating;
    - (i) Do not let snow melt on clothing;
    - (ii) Keep feet dry by preventing snow entering boots;
    - (iii) Loosen clothing to trap air.
    - (iv) Use a windproof layer to stop wind chill.
-

- d. Construct a shelter. If rescue is delayed then the windproof shelter used in the immediate action must be improved with insulation to provide thermal protection.
  - (i) 25CM of snow will provide good insulation.
  - (ii) Rafts, sound proofing or branches will provide insulation from ground.
  - (iii) A one man snow cave can be built in one hour.
  - (iv) In bad weather without a windbreaker an enclosed shelter is more useful than a fire.
- e. Maintain location aids.
  - (i) Keep battery powered equipment warm.
  - (ii) The insulation of a snow shelter will prevent survivors hearing SAR aircraft. Windproof ground signals should be constructed and kept free of snow.
- f. Do not travel unless habitation seen nearby or search scaled down. Travel is strenuous and as slow as 4KM/day. Crevasses and avalanches are hazards in ice and mountainous country.

#### 4.8.3 Medical Hazards.

When outdoors, work in pairs. Observe partner to detect onset of cold injuries.

- a. Hypothermia. (Lowering of body core temperature). Hypothermia can occur in above zero temperatures. The symptoms are incoherence, slowing down, stumbling and weakness. These symptoms may be mistaken for fatigue. To treat hypothermia protect casualty from wind change wet clothing for dry and use body warmth and insulation to warm.
- b. Frostbite. The symptoms are tingling numbing sensation with waxy white appearance. Gently rewarm areas using body heat if nothing else is available. If deep frostbite has occurred leave frozen until rescued.
- c. Carbon Monoxide Poisoning. Ventilate shelters where a stove is used with two 6CM holes in door and roof. Do not light fires inside enclosed shelters.
- d. Snow Blindness. Prevent too much light entering eyes by using sunglasses or eyeshields. Keep eyes covered to recover from snow blindness.
- e. Dehydration. Cold will decrease thirst sensation. Check frequency and colour of urine to avoid unintentional dehydration. To maintain body core temperature drink warm water.

#### 4.8.4 Shelters

The Lean-to with fire and reflector will provide good protection in wooded temperate conditions. An improvised igloo can be made by covering branches, rafts etc., with a parachute and covering with 25CM of snow, letting set and then removing the core. The A-Frame must be modified with 25 CM of snow cover to provide thermal protection. The quickest shelter to build without a shovel is the snow cave. Probe before building to check snow depth. Smooth walls to prevent dripping and construct a cold sump. Stay dry when digging. A snow trench may be constructed with a saw in hard snow.

### 5. INTERCEPTION AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) PROCEDURES

#### 5.1. See AIP ENR 1.12 for.

- a. the procedures and visual signals which apply over the territory and territorial waters of Australia in the event of interception of an ACFT, and
- b. the general rules and procedures used to identify air traffic entering any designated ADIZ under the control of Australia.

### 6. ROYAL FLYING DOCTOR SERVICE (RFDS) HF RADIO AND SATCOM NETWORK

- 6.1. Aircrew requiring in-flight medical advice may attempt contact with the RFDS on the following HF frequencies or SATCOM numbers. Initial contact may be with a duty operator who will facilitate communication with medical personnel.

<b>Base</b>	<b>Organisation</b>	<b>Telephone Contact</b>	<b>Frequencies</b>
Jandakot	RFDS Western Operations	08 9417 6389	N/A
VJD Alice Springs	RFDS Central Operations	08 8648 9555	N/A
VNZ Port Augusta	RFDS Central Operations	08 8648 9555	2020, 4010, 6890, 8165
VJC Broken Hill	RFDS South Eastern Section	08 8088 1188	2020, 4055, 6920
VJN Charleville	RFDS Queensland Section	07 4654 1433	2020, 4980, 6845
VJI Mt Isa	RFDS Queensland Section	07 4743 2802	2020, 5110, 6965
VJN Cairns	RFDS Queensland Section	07 4040 0500	2020, 2260, 5145, 7465
VZX Firefly	Penta Comsat	02 6559 1888	call
RFDS website: <a href="http://www.flyingdoctor.org.au">www.flyingdoctor.org.au</a>			

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**airservices  
australia**



**EN ROUTE SUPPLEMENT AUSTRALIA**

**RUNWAY DISTANCE  
SUPPLEMENT**

**EFFECTIVE 13 JUN 2024 AIRAC**

**202406121600 UTC**

*NEXT ISSUE EFFECTIVE 05 SEPTEMBER 2024*

**FOR LATEST INFORMATION CONSULT NOTAM**

**SEE IMPORTANT NOTICE OVERLEAF**

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**ABRA MINE**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1800 (5905)	1860 (6102) (2.9%)	1800 (5905)	1800 (5905)
RESA dimensions 90M X 90M commences from RWS end.					
29	(3)	1800 (5905)	1860 (6102) (2.92%)	1800 (5905)	1800 (5905)
RESA dimensions 90M X 90M commences from RWS end.					
RWY 11/29 APCH inner edge length 150M.					
Slope 0.196% down to E. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1740(5709)(1.6)	1781(5843)(1.9)	1812(5945)(2.2)	1836(6024)(2.5)
RWY29-	1736(5695)(1.6)	1781(5843)(1.9)	1812(5945)(2.2)	1835(6020)(2.5)

**ADELAIDE**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(4)	3100 (10170)	3204 (10512) (2.41%)	3160 (10367)	2950 (9678)
RESA dimensions 90M X 90M commences from RWS end.					
RWY 05 DTHR 150M.					
23	(4)	3100 (10170)	3204 (10512) (2.63%)	3160 (10367)	3100 (10170)
RESA dimensions 90M X 90M commences from RWS end.					
Aerial 16M FM CWY end and 2.8FT ABV CWY end not included in calculation of TODA GRAD and STODA.					
Slope 0.1% down to SW. RWY WID 45 RWS WID 280 Graded 150					
12	(4)	1652 (5420)	1832 (6010) (2.45%)	1652 (5420)	1652 (5420)
RESA dimensions 90M X 90M commences from RWS end.					
30	(4)	1652 (5420)	1832 (6010) (2.26%)	1652 (5420)	1652 (5420)
RESA dimensions 90M X 90M commences from RWS end.					
1. OBST limitation SFC not surveyed to ICAO standard					
2. Length of approach SFC 7500M. Length of TKOF SFC 7500M.					
Slope Level. RWY WID 45 RWS WID 280 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	2829(9281)(1.6)	3065(10056)(1.9)	3157(10357)(2.2)	
RWY23-	2829(9281)(1.6)	3008(9869)(1.9)	3125(10253)(2.2)	3183(10443)(2.5)
RWY12-	1400(4593)(1.6)	1666(5466)(1.9)	1773(5817)(2.2)	
RWY30-	1578(5177)(1.6)	1773(5817)(1.9)	1825(5987)(2.2)	

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY05-	TKOF from TWY E2; RWY remaining 1555(5102)	reduce all DIST by 1545(5069)
RWY05-	TKOF from TWY F4; RWY remaining 2076(6811)	reduce all DIST by 1024(3360)
RWY05-	TKOF from TWY F5; RWY remaining 2427(7963)	reduce all DIST by 673(2208)
RWY23-	TKOF from TWY D1; RWY remaining 2180(7152)	reduce all DIST by 920(3018)

**ADELAIDE/PARAFIELD**

RWY	(CN)	TORA	TODA	ASDA	LDA
03L	(2)	1350 (4429)	1410 (4626) (2.75%)	1350 (4429)	1350 (4429)
Landing RWY 03L: Unlit OBST 7.9FT ABV and 215M S RWS end. Top of fence marked by red and white 0.6M square hazard signs.					
21R	(2)	1350 (4429)	1410 (4626) (1.94%)	1350 (4429)	1350 (4429)
TKOF RWY 21R: Unlit OBST 6.7FT ABV CWY and 215M S RWS end is not taken into account in the calculation of TODA GRAD and STODA. Top of fence marked by red and white 0.6M square hazard signs.					
Slope 0.4% down to SW. RWY WID 18 RWS WID 90					
03R	(2)	1279 (4196)	1339 (4393) (3.44%)	1279 (4196)	1279 (4196)
Landing RWY 03R: OBST fence 7.9FT ABV and 141M S RWS end. Top of fence marked by red and white 0.6M square hazard signs.					
21L	(2)	1279 (4196)	1339 (4393) (1.43%)	1279 (4196)	1279 (4196)
TKOF RWY 21L: OBST fence 7FT ABV CWY and 141M S RWS end not taken into account in the calculation of STODA GRAD. Top of fence marked by red and white 0.6M square hazard signs.					
Slope 0.5% down to SW. RWY WID 18 RWS WID 90					
08L	(2)	958 (3143)	1018 (3340) (2.94%)	958 (3143)	958 (3143)
26R	(2)	958 (3143)	1018 (3340) (4.07%)	958 (3143)	958 (3143)
Slope 0.5% down to SW. RWY WID 18 RWS WID 90					
08R	(2)	992 (3255)	1052 (3451) (2.75%)	992 (3255)	992 (3255)
26L	(2)	992 (3255)	1052 (3451) (3.86%)	992 (3255)	992 (3255)
Slope 0.1% down to W. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03L-	1035(3396)(1.9)	1244(4081)(2.2)	1348(4423)(2.5)
RWY21R-	1139(3737)(1.6)	1403(4603)(1.9)	
RWY03R-	889(2917)(2.2)	1061(3481)(2.5)	1309(4295)(3.3)
RWY26R-	930(3051)(3.3)		
RWY08R-	904(2966)(2.5)		
RWY26L-	844(2769)(2.5)	983(3225)(3.3)	

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY03L- TKOF from TWY B1; RWY remaining 1158(3799) reduce all DIST by 192(630)

**ALBANY**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1096 (3596)	1156 (3793) (1.2%)	1096 (3596)	1096 (3596)
RWY 05 THR location determined by 5.0% APCH GRAD.					
23	(2)	1096 (3596)	1159 (3802) (5.36%)	1096 (3596)	1096 (3596)
APCH SFC infringed by trees APRX 510M before RWY 23 THR, APRX 85FT AGL.					
Slope 0.3% down to SW. RWY WID 30 RWS WID 90 Graded 90					
14	(3)	1800 (5905)	1860 (6102) (1.55%)	1800 (5905)	1800 (5905)
RESA dimensions 90M X 60M commences from RWS end.					
32	(3)	1800 (5905)	1860 (6102) (2.04%)	1800 (5905)	1800 (5905)
RESA dimensions 90M X 60M commences from RWS end.					
Slope 0.1% down to SE. RWY WID 30 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY23-	899(2949)(3.3)	1125(3691)(5.0)	
RWY32-	1646(5400)(1.6)	1809(5935)(1.9)	

**ALBURY**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(3)	1900 (6234)	1990 (6529) (2.61%)	1900 (6234)	1900 (6234)
25	(3)	1900 (6234)	1990 (6529) (3.61%)	1900 (6234)	1900 (6234)

Slope 0.2% down to E. RWY WID 30 RWS WID 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07- 1678(5505)(2.5)

RWY25- 1971(6466)(3.3)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY07- TKOF from TWY E; RWY remaining 1677(5502) reduce all DIST by 223(732)

**ALICE SPRINGS**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(4)	2438 (7999)	2738 (8983) (1.2%)	2438 (7999)	2438 (7999)

RESA dimensions 240M X 150M commences from RWS end.

30	(4)	2438 (7999)	2738 (8983) (1.93%)	2438 (7999)	2438 (7999)
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RESA dimensions 240M X 150M commences from RWS end.

APCH LGTS up to 3.6FT high WI CWY.

Slope 0.3% down to SE. RWY WID 45 RWS WID 280 Graded 150

17	(2)	1133 (3717)	1193 (3914) (1.2%)	1133 (3717)	1133 (3717)
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RESA dimensions 120M X 90M commences from RWS end.

35	(2)	1133 (3717)	1193 (3914) (3.72%)	1133 (3717)	1133 (3717)
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RESA dimensions 120M X 90M commences from RWS end.

Slope 0.2% down to S. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY30- 842(2762)(1.6) 2627(8619)(1.9)

RWY35- 851(2792)(1.9) 956(3136)(2.2) 1032(3386)(2.5) 1153(3783)(3.3)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY12- TKOF from TWY C; RWY remaining 1738(5702) reduce all DIST by 700(2297)  
 RWY12- TKOF from TWY D; RWY remaining 1661(5449) reduce all DIST by 777(2549)  
 RWY12- TKOF from TWY E; RWY remaining 1307(4288) reduce all DIST by 1131(3711)  
 RWY30- TKOF from TWY C; RWY remaining 723(2372) reduce all DIST by 1715(5627)  
 RWY30- TKOF from TWY D; RWY remaining 800(2625) reduce all DIST by 1638(5374)  
 RWY30- TKOF from TWY E; RWY remaining 1146(3760) reduce all DIST by 1292(4239)

**ALPHA**

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(2)	1456 (4777)	1516 (4974) (3.4%)	1456 (4777)	1456 (4777)
36	(2)	1456 (4777)	1516 (4974) (3%)	1456 (4777)	1456 (4777)

Slope 0.2% down to N. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18- 1362(4468)(1.6) 1411(4629)(1.9) 1444(4737)(2.2) 1469(4819)(2.5) 1512(4961)(3.3)

RWY36- 1232(4042)(1.6) 1325(4347)(1.9) 1394(4573)(2.2) 1449(4754)(2.5)

**AMBERLEY**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(MIL)	1523 (4997)	1583 (5194) (3.11%)	1523 (4997)	1523 (4997)
22	(MIL)	1523 (4997)	1583 (5194) (4.88%)	1523 (4997)	1523 (4997)

TKOF/Climb SFC inner edge WID 180M.

Slope 0.53% up to SW to 323M, then up 0.4% to 1023M, then down 0.3% to RWY end. RWY WID 45 RWS WID 230

15	(MIL)	3047 (9997)	3107 (10193) (3.82%)	3047 (9997)	3047 (9997)
33	(MIL)	3047 (9997)	3107 (10193) (2.24%)	3047 (9997)	3047 (9997)

CWY RWY 15 60M, CWY RWY 33 60M. SWY both RWY NIL.

TKOF/Climb SFC inner edge WID 180M.

**RUNWAY INTERSECTION DECLARED DISTANCES**

RWY 15 - TKOF from RWY 04/22; RWY remaining 787 (2582) reduce all DIST by 2260 (7415)

RWY 33 - TKOF from RWY 04/22; RWY remaining 2305 (7562) reduce all DIST by 742 (2434)

Slope 0.08% down to NW to 746M, then down 0.21% down to 1546M, level to 2746M then up 0.11% to RWY end. RWY WID 45 RWS WID 230

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	836(2743)(2.0)	1023(3356)(2.2)	1252(4108)(2.5)		
RWY22-	917(3008)(2.0)	1112(3648)(2.2)	1248(4094)(2.5)	1419(4655)(3.3)	
RWY15-	969(3179)(1.6)	2566(8419)(1.9)	2620(8596)(2.0)	2715(8907)(2.2)	2827(9275)(2.5)
	3024(9921)(3.3)				
RWY33-	1886(6188)(1.9)	2255(7398)(2.0)	2896(9501)(2.2)		

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY15-	TKOF from TWY A2;	RWY remaining 1590(5216)	reduce all DIST by 1457(4780)
RWY15-	TKOF from TWY A3;	RWY remaining 2444(8018)	reduce all DIST by 603(1978)
RWY33-	TKOF from TWY A2;	RWY remaining 1479(4852)	reduce all DIST by 1568(5144)
RWY33-	TKOF from TWY A3;	RWY remaining 627(2057)	reduce all DIST by 2420(7940)

**ARARAT**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	660 (2165)	720 (2362) (3.57%)	660 (2165)	660 (2165)
22	(1)	660 (2165)	720 (2362) (2.39%)	660 (2165)	660 (2165)

Slope 0.4% down to NE. RWY WID 30 RWS WID 90

12	(1)	1240 (4068)	1300 (4265) (1.95%)	1240 (4068)	1240 (4068)
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RESA dimensions 60M X 34M commences from RWY end.

30	(1)	1240 (4068)	1300 (4265) (1.2%)	1240 (4068)	1240 (4068)
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RESA dimensions 60M X 34M commences from RWY end.

Slope 0.2% down to NW. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	1040(3412)(1.6)	1278(4193)(1.9)			
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**ARGYLE**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	2300 (7546)	2360 (7743) (1.71%)	2300 (7546)	2300 (7546)

RESA dimensions 90M X 60M commences from RWY end.

19	(3)	2300 (7546)	2360 (7743) (2.67%)	2300 (7546)	2300 (7546)
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RESA dimensions 90M X 60M commences from RWY end.

Slope 0.2% down to N. RWY WID 30 RWS WID 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	2340(7677)(1.6)				
RWY19-	1874(6148)(1.6)	2081(6827)(1.9)	2215(7267)(2.2)	2315(7595)(2.5)	

**ARMIDALE**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1738 (5702)	1798 (5899) (1.2%)	1738 (5702)	1738 (5702)
		RESA dimensions 60M X 60M commences from RWY end.			
23	(3)	1738 (5702)	1798 (5899) (1.99%)	1738 (5702)	1738 (5702)
		RESA dimensions 60M X 60M commences from RWY end.			
		Fence 9.4FT ABV and parallel to RWY, 90M SE of RCL is not taken into account in the calculation of TODA GRAD and STODA.			
		Slope 0.5% down to SW. RWY WID 30 RWS WID 150 Graded 90			
09	(2)	1116 (3661)	1176 (3858) (2.53%)	1116 (3661)	1116 (3661)
		RESA dimensions 60M X 60M commences from RWY end.			
27	(2)	1116 (3661)	1176 (3858) (3.29%)	1116 (3661)	1116 (3661)
		RESA dimensions 60M X 60M commences from RWY end.			
		Slope 0.6% down to W. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY23-	1630(5348)(1.6)	1769(5804)(1.9)			
RWY09-	951(3120)(1.6)	1066(3497)(1.9)	1121(3678)(2.2)	1172(3845)(2.5)	
RWY27-	933(3061)(1.6)	995(3264)(1.9)	1047(3435)(2.2)	1092(3583)(2.5)	

**AURUKUN**

RWY	(CN)	TORA	TODA	ASDA	LDA
16	(2)	1260 (4134)	1320 (4331) (2.23%)	1260 (4134)	1260 (4134)
34	(2)	1260 (4134)	1320 (4331) (1.2%)	1260 (4134)	1260 (4134)
		RWY 16/34 length of TKOF and APCH inner edge 90M.			
		Slope Level. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY16-	1026(3366)(1.6)	1190(3904)(1.9)	1309(4295)(2.2)		
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**AVALON**

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(4)	3048 (10000)	3353 (11001) (1.79%)	3108 (10197)	3048 (10000)
		RESA dimensions 90M X 90M commences from RWS end.			
36	(4)	3048 (10000)	3291 (10797) (1.79%)	3108 (10197)	3048 (10000)
		RESA dimensions 90M X 90M commences from RWS end.			
		Slope 0.03% down to N. RWY WID 45 RWS WID 300 Graded 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	3327(10915)(1.6)				
RWY36-	3185(10449)(1.6)				

**AYERS ROCK/CONNELLAN**

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(3)	2599 (8527)	2659 (8724) (2.21%)	2599 (8527)	2599 (8527)
		RESA dimensions 90M X 60M commences from RWY end.			
31	(3)	2599 (8527)	2659 (8724) (2.66%)	2599 (8527)	2599 (8527)
		RESA dimensions 90M X 60M commences from RWY end.			
		Slope SE end level to RWY centre. 0.3% down to NW. RWY WID 30 RWS WID 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY13-	2511(8238)(1.6)	2597(8520)(1.9)	2657(8717)(2.2)		
RWY31-	2566(8419)(1.6)	2598(8524)(1.9)	2627(8619)(2.2)	2649(8691)(2.5)	

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**BAIRNSDALE**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	1098 (3602)	1158 (3799) (2.24%)	1098 (3602)	1098 (3602)
		RESA dimensions 60M X 90M commences from RWY end.			
22	(1)	1098 (3602)	1158 (3799) (3.36%)	1098 (3602)	1098 (3602)
		RESA dimensions 60M X 90M commences from RWY end.			
		Slope 0.3% down to NE. RWY WID 18 RWS WID 90 Graded 90			
13	(1)	852 (2795)	912 (2992) (3.59%)	852 (2795)	852 (2795)
		RESA dimensions 60M X 80M commences from RWY end.			
31	(1)	852 (2795)	912 (2992) (3.54%)	852 (2795)	852 (2795)
		RESA dimensions 60M X 80M commences from RWY end.			
		Slope 0.1% down to SE. RWY WID 18 RWS WID 80			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	921(3022)(1.6)	1045(3428)(1.9)	1146(3760)(2.2)	
RWY22-	823(2700)(1.9)	935(3068)(2.2)	1017(3337)(2.5)	1151(3776)(3.3)
RWY13-	876(2874)(3.3)			
RWY31-	864(2835)(3.3)			

**BALGO HILL**

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(2)	1610 (5282)	1670 (5479) (3.03%)	1610 (5282)	1610 (5282)
		RESA dimensions 60M X 60M commences from RWY end.			
33	(2)	1610 (5282)	1670 (5479) (1.2%)	1610 (5282)	1610 (5282)
		RESA dimensions 60M X 60M commences from RWY end.			
		Slope 0.8% down to NW. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY15-	1357(4452)(1.6)	1480(4856)(1.9)	1556(5105)(2.2)	1608(5276)(2.5)
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**BALLARAT**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1265 (4150)	1325 (4347) (4.58%)	1265 (4150)	1265 (4150)
		RESA dimensions 55M X 30M commences from RWY end.			
		RWY 05 S side transitional SFC infringed by tower and radio aerial.			
23	(3)	1265 (4150)	1325 (4347) (6.05%)	1265 (4150)	1265 (4150)
		RESA dimensions 150M X 30M commences from RWY end.			
		Slope 0.4% from centre down to ends. RWY WID 30 RWS WID 90			
13	(1)	568 (1863)	628 (2060) (2.05%)	568 (1863)	568 (1863)
31	(1)	568 (1863)	628 (2060) (1.36%)	568 (1863)	568 (1863)
		Slope 0.6% down to N. RWY WID 30 RWS WID 90			
18	(3)	1245 (4085)	1305 (4281) (2.49%)	1245 (4085)	1245 (4085)
		1. 3.33% OBST CLR APCH SFC LDG RWY 18 terminates at THR, not RWS end.			
		2. LDG RWY 18 - Unlit OBST fence 4.9FT ABV and 36M N of RWS end.			
		3. Transient OBST up to 17.6FT ABV and 57M S of RWS end is not taken into account in calculation of TODA GRAD and STODA.			
		4. OBST fence up to 6.5FT ABV and PARL to RWY, 78M E of RCL not taken into account in calculation of TODA GRAD and STODA.			
		5. Unlit OBST fence 8.2FT ABV, 32M S of RWS end not taken into account in calculation of TODA GRAD and STODA.			
36	(3)	1245 (4085)	1305 (4281) (3.18%)	1245 (4085)	1245 (4085)
		RESA dimensions 130M X 30M commences from RWY end.			
		OBST fences 4.2FT ABV and PARL to RWY, 77M E of RCL, and 3.8FT ABV and 87M W of RCL are not taken into account in calculation of TODA GRAD and STODA.			
		Slope 0.1% down to N. RWY WID 30 RWS WID 150 Graded 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	972(3189)(2.2)	1050(3445)(2.5)	1206(3957)(3.3)		
RWY23-	878(2881)(1.6)	1004(3294)(1.9)	1119(3671)(2.2)	1217(3993)(2.5)	1311(4301)(3.3)
	1321(4334)(5.0)				
RWY18-	841(2759)(1.9)	1115(3658)(2.2)			
RWY36-	1221(4006)(2.5)				

**BALLERA**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	1800 (5905)	1860 (6102) (1.2%)	1800 (5905)	1800 (5905)
		RESA dimensions 90M X 60M commences from RWY end.			
21	(3)	1800 (5905)	1860 (6102) (1.2%)	1800 (5905)	1800 (5905)
		RESA dimensions 90M X 60M commences from RWY end.			
		Slope Up 0.29% to SW to 460M then DOWN 0.23% to RWY end. RWY WID 30 RWS WID 150 Graded 90			

**BALLINA/BYRON GATEWAY**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	1900 (6234)	1960 (6430) (3.42%)	1900 (6234)	1900 (6234)
		RESA dimensions 90M X 60M commences from RWY end.			
24	(3)	1900 (6234)	1960 (6430) (3.27%)	1900 (6234)	1900 (6234)
		RESA dimensions 90M X 60M commences from RWY end.			
		APCH SFC survey based on 150M inner edge WID, gradient 3.33%.			
		Slope Level. RWY WID 30 RWS WID 150 Graded 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1192(3911)(1.9)	1498(4915)(2.2)	1730(5676)(2.5)	1938(6358)(3.3)
RWY24-	1329(4360)(1.9)	1535(5036)(2.2)	1693(5554)(2.5)	

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY06-	TKOF from TWY A;	RWY remaining 1615(5298)	reduce all DIST by 285(935)
RWY06-	TKOF from TWY B;	RWY remaining 1435(4708)	reduce all DIST by 465(1526)

**BALRANALD**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(1)	650 (2133)	710 (2329) (3.88%)	650 (2133)	650 (2133)
26	(1)	650 (2133)	710 (2329) (2.17%)	650 (2133)	650 (2133)
		Slope Level. RWY WID 30 RWS WID 90			
18	(1)	1185 (3888)	1245 (4085) (3.38%)	1185 (3888)	1185 (3888)
36	(1)	1185 (3888)	1245 (4085) (1.46%)	1185 (3888)	1185 (3888)
		Slope Level. RWY WID 18 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	809(2654)(1.9)	946(3104)(2.2)	1050(3445)(2.5)	1240(4068)(3.3)
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**BARCALDINE**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	1702 (5584)	1762 (5781) (3.67%)	1702 (5584)	1702 (5584)
19	(3)	1702 (5584)	1762 (5781) (3%)	1702 (5584)	1702 (5584)

CAUTION: S end unlit OBST bank 54FT above and 76M E of RWY CL has not been taken into account in calculation of TODA GRAD and STODA.

CAUTION: S end unlit OBST bank 19FT above and 80M W of RWY CL has not been taken into account in calculation of TODA GRAD and STODA.

Slope 0.1% down to N. RWY WID 30 RWS WID 150 Graded 90

14	(2)	1115 (3658)	1175 (3855) (2.5%)	1115 (3658)	1115 (3658)
32	(2)	1115 (3658)	1175 (3855) (2.04%)	1115 (3658)	1115 (3658)

Slope 0.2% down to NW. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	1424(4672)(1.6)	1537(5043)(1.9)	1601(5253)(2.2)	1649(5410)(2.5)	1735(5692)(3.3)
RWY19-	1418(4652)(1.6)	1536(5039)(1.9)	1620(5315)(2.2)	1684(5525)(2.5)	
RWY14-	872(2861)(1.6)	1012(3320)(1.9)	1107(3632)(2.2)		
RWY32-	975(3199)(1.6)	1131(3711)(1.9)			

**BARIMUNYA**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1940 (6365)	2000 (6562) (1.98%)	1940 (6365)	1880 (6168)
RESA dimensions 90M X 60M commences from RWS end.					
28	(3)	1940 (6365)	2000 (6562) (2.14%)	1940 (6365)	1880 (6168)

RESA dimensions 90M X 60M commences from RWS end.

1. RWY 10/28 APCH inner edge length 150M.
2. RWY 10/28 TORA, TODA and ASDA begin at RWS end.
3. RWY 10/28 transitional SFC infringed 1FT by Eastern IWI.
4. RWY 10/28 transitional SFC infringed 8FT by Western IWI marked with red OBS light.

Slope rises at 1.0% FM both THR for first 300M. Hump in centre of RWY. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	1799(5902)(1.6)	1997(6552)(1.9)			
RWY28-	1979(6493)(1.6)	1997(6552)(1.9)			

**BARROW ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	1900 (6234)	1960 (6430) (2.26%)	1900 (6234)	1900 (6234)
RESA dimensions 90M X 60M commences from RWY end.					
21	(3)	1900 (6234)	1960 (6430) (3.2%)	1900 (6234)	1900 (6234)

RESA dimensions 90M X 60M commences from RWY end.

1. Anthills, 90M either side RCL, 1975M FM SOT RWY 21, 6FT AGL. 10.1% TKOF gradient.
2. RWY 03/21 APCH inner edge length 150M.

Slope 0.15% down to NE. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	1924(6312)(1.6)	1943(6375)(1.9)	1957(6421)(2.2)		
RWY21-	1890(6201)(1.6)	1913(6276)(1.9)	1929(6329)(2.2)	1941(6368)(2.5)	

**BATHURST**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1318 (4324)	1378 (4521) (3.17%)	1318 (4324)	1318 (4324)

RESA dimensions 300M X 90M commences from RWY end.

26	(2)	1318 (4324)	1378 (4521) (1.2%)	1318 (4324)	1318 (4324)
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RESA dimensions 300M X 90M commences from RWY end.

Slope 0.6% down to W. RWY WID 18 RWS WID 90

17	(3)	1705 (5594)	1765 (5791) (2.38%)	1705 (5594)	1705 (5594)
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RESA dimensions 300M X 90M commences from RWY end.

35	(3)	1705 (5594)	1765 (5791) (2.68%)	1705 (5594)	1705 (5594)
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RESA dimensions 300M X 90M commences from RWY end.

1. OBST fence 10FT ABV and PARL RWY 76.1M W of RCL and OBST fence 2FT ABV and PARL RWY 76.2M E of RCL not taken into account in determining TODA gradient and STODA.

2. TKOF/Climb SFC inner edge 150.

Slope 0.8% down to N. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08- 1054(3458)(2.5)

RWY17- 1348(4423)(1.6) 1582(5190)(1.9) 1699(5574)(2.2)

RWY35- 913(2995)(1.6) 1418(4652)(1.9) 1671(5482)(2.2) 1730(5676)(2.5)

**BATHURST ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(3)	1470 (4823)	1530 (5020) (4.78%)	1470 (4823)	1470 (4823)

RWY 15 fence 1559M FM start of TORA and on EXTD CL 5FT ABV end of TODA.

33	(3)	1470 (4823)	1530 (5020) (4.43%)	1470 (4823)	1470 (4823)
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RWY 15/33 OBST surveys are conducted using 90M inner edge width.

Slope 0.7% down to NW. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY15- 1247(4091)(1.6) 1338(4390)(1.9) 1392(4567)(2.2) 1428(4685)(2.5) 1484(4869)(3.3)

RWY33- 1174(3852)(1.6) 1248(4094)(1.9) 1307(4288)(2.2) 1355(4445)(2.5) 1448(4751)(3.3)

**BEDOURIE**

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(2)	1810 (5938)	1870 (6135) (2.1%)	1810 (5938)	1810 (5938)

RESA dimensions 60M X 60M commences from RWY end.

32	(2)	1810 (5938)	1870 (6135) (1.27%)	1810 (5938)	1810 (5938)
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RESA dimensions 60M X 60M commences from RWY end.

1. RWY 14/32 TODA GRAD and STODA based off 150M inner edge length with 12.5 percent diversions.

2. Parallel sand dunes located APRX 51M E of RWY 14/32 CL ignored in the TODA GRAD and STODA. Infringes TNS by 2FT.

Slope from centre, 0.2% down to NW and 0.12% down to SE. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14- 1770(5807)(1.6) 1837(6027)(1.9)

**BELLEVUE**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	2000 (6562)	2060 (6758) (2.16%)	2000 (6562)	2000 (6562)
19	(3)	2000 (6562)	2060 (6758) (2.36%)	2000 (6562)	2000 (6562)

RWY 01/19 APCH inner edge length 150M.

Slope 0.28% down to S. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	1890(6201)(1.6)	1997(6552)(1.9)			
RWY19-	2032(6667)(1.6)	2045(6709)(1.9)	2055(6742)(2.2)		

**BENALLA**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(1)	1043 (3422)	1103 (3619) (2.77%)	1043 (3422)	1043 (3422)
26	(1)	1043 (3422)	1103 (3619) (2.07%)	1043 (3422)	1043 (3422)

Slope 0.1% down to W. RWY WID 18 RWS WID 90 Graded 90

17	(1)	718 (2356)	778 (2552) (4.31%)	718 (2356)	718 (2356)
35	(1)	718 (2356)	778 (2552) (4.96%)	718 (2356)	718 (2356)

Slope 0.1% down to N. RWY WID 30 RWS WID 90 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	935(3068)(2.2)	1037(3402)(2.5)			
RWY26-	854(2802)(1.6)	1017(3337)(1.9)			

**BENDIGO**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	767 (2516)	827 (2713) (5.02%)	767 (2516)	767 (2516)
23	(1)	767 (2516)	827 (2713) (5.17%)	767 (2516)	767 (2516)

Slope 0.4% down to NE. RWY WID 18 RWS WID 60 Graded 90

17	(3)	1600 (5249)	1660 (5446) (3.21%)	1600 (5249)	1600 (5249)
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1. Unlit OBST fence 15.3FT ABV and 82M S of RWS end has not been taken into account in the calculation of the TODA GRAD and STODA.

2. Transient OBST (vehicle) 32FT AGL and 1870M FM SOT RWY 17 has not been taken into account in the calculation of TODA GRAD and STODA.

35	(3)	1600 (5249)	1660 (5446) (3.57%)	1600 (5249)	1600 (5249)
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Slope 600M N end 0.9 down to S, 1000M S end 1.1 down to N. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	826(2710)(5.0)				
RWY23-	812(2664)(5.0)				
RWY17-	808(2651)(2.2)	1128(3701)(2.5)			
RWY35-	932(3058)(1.6)	1092(3583)(1.9)	1296(4252)(2.2)	1436(4711)(2.5)	1630(5348)(3.3)

**BIRCHIP**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	1043 (3422)	1103 (3619) (1.2%)	1043 (3422)	1043 (3422)

Transient OBST up to 14.8FT ABV and 80M NE of RWS end is not taken into account in the calculation of TODA GRAD and STODA.

22	(1)	1043 (3422)	1103 (3619) (3.28%)	1043 (3422)	977 (3205)
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RWY 22 DTHR 66M (217FT).

Slope Level. RWY WID 18 RWS WID 90

09	(1)	524 (1719)	584 (1916) (1.28%)	524 (1719)	524 (1719)
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27	(1)	524 (1719)	584 (1916) (3.16%)	524 (1719)	524 (1719)
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Slope Level. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY22-	918(3012)(2.2)	991(3251)(2.5)			
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**BIRDSVILLE**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(1)	800 (2625)	830 (2723) (1.6%)	800 (2625)	800 (2625)
21	(1)	800 (2625)	830 (2723) (1.6%)	800 (2625)	800 (2625)
Slope Level. RWY WID 18 RWS WID 60					
14	(3)	1732 (5682)	1822 (5978) (2.64%)	1732 (5682)	1732 (5682)
RESA dimensions 60M X 60M commences from RWS end.					
32	(3)	1732 (5682)	1792 (5879) (3.1%)	1732 (5682)	1732 (5682)
RESA dimensions 60M X 60M commences from RWS end.					
Slope 0.1% down to SE. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14-	1667(5469)(1.6)	1729(5673)(1.9)	1775(5823)(2.2)	1810(5938)(2.5)
RWY32-	1478(4849)(1.6)	1593(5226)(1.9)	1669(5476)(2.2)	1721(5646)(2.5)

**BLACKALL**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	1688 (5538)	1748 (5735) (2.82%)	1688 (5538)	1688 (5538)
24	(3)	1688 (5538)	1748 (5735) (2.95%)	1688 (5538)	1688 (5538)
Slope 0.1% down to SW. RWY WID 30 RWS WID 90 Graded 90					
12	(2)	1603 (5259)	1663 (5456) (2.65%)	1603 (5259)	1603 (5259)
30	(2)	1603 (5259)	1663 (5456) (3.2%)	1603 (5259)	1603 (5259)
Slope 0.1% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1234(4049)(1.6)	1427(4682)(1.9)	1564(5131)(2.2)	1666(5466)(2.5)
RWY24-	1525(5003)(1.6)	1607(5272)(1.9)	1666(5466)(2.2)	1712(5617)(2.5)
RWY12-	1308(4291)(1.6)	1496(4908)(1.9)	1584(5197)(2.2)	1640(5381)(2.5)
RWY30-	1318(4324)(1.6)	1424(4672)(1.9)	1502(4928)(2.2)	1564(5131)(2.5)

**BOOLGEEDA**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(4)	2200 (7218)	2260 (7415) (2.75%)	2200 (7218)	2200 (7218)
26	(4)	2200 (7218)	2260 (7415) (1.88%)	2200 (7218)	2200 (7218)
Slope 0.66% down to W. RWY WID 45 RWS WID 300 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	2181(7155)(1.9)	2219(7280)(2.2)	2244(7362)(2.5)
RWY26-	2227(7306)(1.6)		

**BOULIA**

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	1801 (5909)	1861 (6106) (1.2%)	1801 (5909)	1801 (5909)
32	(3)	1801 (5909)	1861 (6106) (1.6%)	1801 (5909)	1801 (5909)
Take-off inner edge WID 180M.					
Slope 0.15% down to SE. RWY WID 30 RWS WID 150 Graded 90					

**BOURKE**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1830 (6004)	1890 (6201) (2.31%)	1830 (6004)	1830 (6004)
RESA dimensions 90M X 60M commences from RWY end.					
23	(3)	1830 (6004)	1890 (6201) (3.33%)	1830 (6004)	1830 (6004)
RESA dimensions 90M X 60M commences from RWY end.					
Slope Level. RWY WID 30 RWS WID 150 Graded 90					
18	(1)	1000 (3281)	1060 (3478) (2.62%)	1000 (3281)	1000 (3281)
36	(1)	1000 (3281)	1060 (3478) (2.98%)	1000 (3281)	1000 (3281)
Slope Level. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	1665(5463)(1.6)	1791(5876)(1.9)	1868(6129)(2.2)		
RWY23-	1839(6033)(1.6)	1855(6086)(1.9)	1866(6122)(2.2)	1874(6148)(2.5)	
RWY18-	892(2926)(2.2)	1020(3346)(2.5)			
RWY36-	800(2625)(1.6)	887(2910)(1.9)	949(3113)(2.2)	1005(3297)(2.5)	

**BOWEN**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1308 (4291)	1368 (4488) (8.06%)	1308 (4291)	1308 (4291)
22	(2)	1308 (4291)	1368 (4488) (4.39%)	1308 (4291)	1228 (4029)
RWY 22 DTHR 80M.					
Slope 0.3% down to NE. RWY WID 18 RWS WID 90					
12	(1)	901 (2956)	961 (3153) (3.16%)	901 (2956)	901 (2956)
30	(1)	901 (2956)	961 (3153) (5.6%)	901 (2956)	901 (2956)
Slope 0.2% down to SE. RWY WID 23 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1191(3907)(1.6)	1223(4012)(1.9)	1247(4091)(2.2)	1266(4153)(2.5)	1300(4265)(3.3)
RWY22-	937(3074)(1.6)	1154(3786)(1.9)	1255(4117)(2.2)	1329(4360)(2.5)	1360(4462)(3.3)
RWY12-	832(2730)(1.6)	872(2861)(1.9)	901(2956)(2.2)	925(3035)(2.5)	
RWY30-	876(2874)(3.3)	947(3107)(5.0)			

**BREWARRINA**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(2)	1386 (4547)	1446 (4744) (1.56%)	1386 (4547)	1386 (4547)
21	(2)	1386 (4547)	1446 (4744) (2.66%)	1386 (4547)	1386 (4547)
Slope 800(2625) NE end 0.7% down to NE/SE end level. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY21-	1145(3757)(1.6)	1269(4163)(1.9)	1355(4445)(2.2)	1418(4652)(2.5)	
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**BRISBANE**

RWY	(CN)	TORA	TODA	ASDA	LDA
01L	(4)	3300 (10827)	3360 (11023) (1.6%)	3300 (10827)	3300 (10827)
		RESA dimensions 240M X 120M commences from RWS end.			
19R	(4)	3300 (10827)	3360 (11023) (1.54%)	3300 (10827)	3300 (10827)
		RESA dimensions 240M X 120M commences from RWS end.			
		Slope 0.2% up from 600M both ends for 400M. Centre level. RWY WID 60 RWS WID 300 Graded 150			
01R	(4)	3500 (11483)	3620 (11876) (1.2%)	3560 (11680)	3500 (11483)
		RESA dimensions 90M X 90M commences from SWY end.			
		RWY 01R DTHR 60M (197FT).			
19L	(4)	3560 (11680)	3620 (11876) (1.49%)	3560 (11680)	3560 (11680)
		RESA dimensions 90M X 90M commences from RWY end.			
		Slope Level. RWY WID 45 RWS WID 300 Graded 150			

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY01L-	TKOF from TWY T10; RWY remaining 2211(7254)	reduce all DIST by 1089(3573)
RWY01L-	TKOF from TWY T12; RWY remaining 2662(8733)	reduce all DIST by 638(2093)
RWY01L-	TKOF from TWY T13; RWY remaining 3252(10669)	reduce all DIST by 48(157)
RWY19R-	TKOF from TWY T2; RWY remaining 3179(10430)	reduce all DIST by 121(397)
RWY19R-	TKOF from TWY T3; RWY remaining 2662(8733)	reduce all DIST by 638(2093)
RWY19R-	TKOF from TWY T5; RWY remaining 2211(7254)	reduce all DIST by 1089(3573)
RWY01R-	TKOF from TWY A3; RWY remaining 809(2654)	reduce all DIST by 2691(8829)
RWY01R-	TKOF from TWY A4; RWY remaining 1279(4196)	reduce all DIST by 2221(7287)
RWY01R-	TKOF from TWY A7; RWY remaining 2689(8822)	reduce all DIST by 811(2661)
RWY01R-	TKOF from TWY H3; RWY remaining 801(2628)	reduce all DIST by 2699(8855)
RWY01R-	TKOF from TWY M; RWY remaining 2685(8809)	reduce all DIST by 815(2674)
RWY19L-	TKOF from TWY A3; RWY remaining 2781(9124)	reduce all DIST by 779(2556)
RWY19L-	TKOF from TWY A4; RWY remaining 2311(7582)	reduce all DIST by 1249(4098)
RWY19L-	TKOF from TWY H3; RWY remaining 2774(9101)	reduce all DIST by 786(2579)
RWY19L-	TKOF from TWY H4; RWY remaining 2304(7559)	reduce all DIST by 1256(4121)

**BRISBANE WEST WELLCAMP**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(4)	2870 (9416)	2930 (9613) (3.12%)	2870 (9416)	2870 (9416)
		RESA dimensions 92M X 90M commences from RWS end.			
		All grooved asphalt except RWY 12 THR and turning node, which is grooved concrete (200M (656))			
30	(4)	2870 (9416)	2930 (9613) (1.92%)	2870 (9416)	2870 (9416)
		RESA dimensions 92M X 90M commences from RWS end.			
		Slope NW end 0.5% up to SE for 700M, then 0.9% up to SE for 1350, then 0.8% up to SE for 820M. RWY WID 45 RWS WID 300 Graded 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	931(3054)(2.2)	1718(5636)(2.5)
RWY30-	2747(9012)(1.6)	2807(9209)(1.9)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY12-	TKOF from TWY G; RWY remaining 1732(5682)	reduce all DIST by 1138(3734)
RWY30-	TKOF from TWY K; RWY remaining 2412(7913)	reduce all DIST by 458(1503)

**BRISBANE/ARCHERFIELD**

RWY	(CN)	TORA	TODA	ASDA	LDA
04L	(2)	1245 (4085)	1305 (4281) (3.29%)	1245 (4085)	1245 (4085)
22R	(2)	1245 (4085)	1305 (4281) (3.45%)	1245 (4085)	955 (3133)

1. RWY 22R DTHR 290M.

2. Caution: SW end RWY 22R unlit OBST bank 1FT ABV and 0.6M SE of RWS CL has not been taken into account in the calculation of TODA GRAD and STODA.

Slope 0.25% down to NE. RWY WID 30 RWS WID 90

04R	(2)	1100 (3609)	1160 (3806) (3.6%)	1100 (3609)	1100 (3609)
22L	(2)	1100 (3609)	1160 (3806) (2.7%)	1100 (3609)	1100 (3609)

Slope 0.3% down to NE. RWY WID 30 RWS WID 90

10L	(3)	1556 (5105)	1637 (5371) (5.1%)	1556 (5105)	1406 (4613)
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RESA dimensions 90M X 60M commences from CWY end.

1. RWY 10L DTHR 150M.

2. TKOF run commences at the starter extension 150M west of RWY 10L THR. From RWY 10L THR TORA is 1406M.

28R	(3)	1577 (5174)	1727 (5666) (3.7%)	1577 (5174)	1350 (4429)
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RESA dimensions 90M X 60M commences from CWY end.

1. RWY 28R DTHR 227M.

2. TKOF run commences at starter extension 227M east of RWY 28R THR. From RWY 28R THR TORA is 1350M.

Slope 0.5% down to W. RWY WID 30 RWS WID 150

10R	(2)	1100 (3609)	1160 (3806) (3.86%)	1100 (3609)	1100 (3609)
28L	(2)	1100 (3609)	1160 (3806) (3.68%)	1100 (3609)	1100 (3609)

Slope 0.5% down to W. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04L- 1087(3566)(2.2) 1215(3986)(2.5)

RWY22R- 818(2684)(2.5) 1266(4153)(3.3)

RWY04R- 940(3084)(1.9) 1002(3287)(2.2) 1048(3438)(2.5) 1136(3727)(3.3)

RWY22L- 1010(3314)(2.5)

RWY10L- 955(3133)(1.9) 1137(3730)(2.2) 1254(4114)(2.5) 1446(4744)(3.3) 1631(5351)(5.0)

RWY28R- 1002(3287)(1.6) 1185(3888)(1.9) 1326(4350)(2.2) 1439(4721)(2.5) 1652(5420)(3.3)

RWY10R- 1069(3507)(3.3)

RWY28L- 871(2858)(2.2) 964(3163)(2.5) 1117(3665)(3.3)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY10L- TKOF from TWY B6; RWY remaining 1405(4610) reduce all DIST by 151(495)

RWY28R- TKOF from CHECKRWY remaining 1487(4879) reduce all DIST by 90(295)  
POINT Z;

RWY28R- TKOF from TWY A1; RWY remaining 1553(5095) reduce all DIST by 24(79)

RWY28R- TKOF from TWY A2; RWY remaining 1328(4357) reduce all DIST by 249(817)

RWY28R- TKOF from TWY B2; RWY remaining 1350(4429) reduce all DIST by 227(745)

**BROKEN HILL**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	2512 (8241)	2572 (8438) (2.47%)	2512 (8241)	2512 (8241)
RESA dimensions 90M X 60M commences from RWS end.					
23	(3)	2512 (8241)	2572 (8438) (3.03%)	2512 (8241)	2512 (8241)
RESA dimensions 90M X 60M commences from RWS end.					
Slope 0.62% down to SW. RWY WID 30 RWS WID 150					
14	(2)	1000 (3281)	1060 (3478) (1.64%)	1000 (3281)	1000 (3281)
32	(2)	1000 (3281)	1060 (3478) (2.78%)	1000 (3281)	1000 (3281)
Slope from ends 0.32% down to point 670M from NW end. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	2197(7208)(1.6)	2424(7953)(1.9)	2538(8327)(2.2)		
RWY23-	2316(7598)(1.6)	2406(7894)(1.9)	2469(8100)(2.2)	2516(8254)(2.5)	
RWY14-	1021(3350)(1.6)				
RWY32-	854(2802)(1.9)	945(3100)(2.2)	1013(3323)(2.5)		

**BROOME/INTL**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(4)	2404 (7887)	2464 (8084) (3.24%)	2404 (7887)	2270 (7447)
28	(4)	2324 (7625)	2384 (7821) (1.94%)	2324 (7625)	2204 (7231)

APCH GRAD RWY 10 and 28 based on 150M inner edge.

RWY 28 DTHR 66M.

Slope W 737M level, E 1,721M 0.5% down to E. No shoulders. RWY WID 45 RWS WID 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	2235(7333)(1.6)	2299(7543)(1.9)	2345(7693)(2.2)	2386(7828)(2.5)	
RWY28-	2349(7707)(1.6)	2381(7812)(1.9)			

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY10-	TKOF from TWY E;	RWY remaining 1188(3898)	reduce all DIST by 1216(3989)
RWY10-	TKOF from TWY F1;	RWY remaining 1467(4813)	reduce all DIST by 937(3074)
RWY10-	TKOF from TWY F2;	RWY remaining 1574(5164)	reduce all DIST by 830(2723)
RWY10-	TKOF from TWY F3;	RWY remaining 2261(7418)	reduce all DIST by 143(469)
RWY10-	TKOF from TWY G;	RWY remaining 784(2572)	reduce all DIST by 1620(5315)
RWY28-	TKOF from TWY A;	RWY remaining 1889(6197)	reduce all DIST by 435(1427)
RWY28-	TKOF from TWY B;	RWY remaining 1982(6503)	reduce all DIST by 342(1122)
RWY28-	TKOF from TWY C;	RWY remaining 1887(6191)	reduce all DIST by 437(1434)
RWY28-	TKOF from TWY E;	RWY remaining 1096(3596)	reduce all DIST by 1228(4029)
RWY28-	TKOF from TWY F1;	RWY remaining 813(2667)	reduce all DIST by 1511(4957)
RWY28-	TKOF from TWY G;	RWY remaining 1495(4905)	reduce all DIST by 829(2720)

**BUNBURY**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(2)	1015 (3330)	1075 (3527) (3.51%)	1159 (3802)	1015 (3330)
RESA dimensions 60M X 46M commences from RWY end.					
25	(2)	1219 (3999)	1279 (4196) (5.26%)	1219 (3999)	1015 (3330)

RESA dimensions 60M X 46M commences from RWY end.

1. APCH surface infringed by multiple objects (trees).

2. RWY 25 DTHR 204M (transient OBST on highway).

Slope 0.15% down to SW. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	860(2821)(1.9)	926(3038)(2.2)	976(3202)(2.5)	1061(3481)(3.3)	
RWY25-	879(2884)(3.3)	1059(3474)(5.0)			



**BUNDABERG**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(2)	1128 (3701)	1188 (3898) (3.23%)	1128 (3701)	1128 (3701)
RESA dimensions 60M X 60M commences from RWS end.					
25	(2)	1128 (3701)	1188 (3898) (3.63%)	1128 (3701)	1128 (3701)
RESA dimensions 60M X 60M commences from RWS end.					
Slope 0.2% down to NE. RWY WID 30 RWS WID 90					
14	(3)	2000 (6562)	2090 (6857) (1.88%)	2000 (6562)	2000 (6562)
RESA dimensions 90M X 60M commences from RWS end.					
32	(3)	2000 (6562)	2090 (6857) (3.72%)	2000 (6562)	2000 (6562)
RESA dimensions 90M X 60M commences from RWS end.					
Slope Level. RWY WID 30 RWS WID 150 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	860(2821)(1.6)	985(3232)(1.9)	1047(3435)(2.2)	1097(3599)(2.5)
RWY25-	830(2723)(1.9)	984(3228)(2.2)	1075(3527)(2.5)	1166(3825)(3.3)
RWY14-	2002(6568)(1.6)			
RWY32-	1747(5732)(1.6)	1879(6165)(1.9)	1987(6519)(2.2)	2050(6726)(2.5) 2080(6824)(3.3)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY14-	TKOF from TWY B;	RWY remaining 1706(5597)	reduce all DIST by 294(965)
RWY14-	TKOF from TWY C;	RWY remaining 1569(5148)	reduce all DIST by 431(1414)
RWY14-	TKOF from TWY D;	RWY remaining 1285(4216)	reduce all DIST by 715(2346)

**BURKETOWN**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	1372 (4501)	1432 (4698) (2.99%)	1372 (4501)	1372 (4501)
RESA dimensions 60M X 60M commences from RWY end.					
1. Unlit OBST fence 7FT ABV and 15M NW of RWS end has not been taken into account in the calculation of TODA GRAD or STODA.					
2. 3.33% OBST CLR APCH SFC LDG RWY 03 terminates at THR, not RWS end.					
21	(3)	1372 (4501)	1432 (4698) (4.94%)	1372 (4501)	1372 (4501)
RESA dimensions 60M X 60M commences from RWY end.					
1. Unlit OBST fence 4FT ABV and 0.2M SW of RWS end has not been taken into account in the calculation of TODA GRAD or STODA.					
2. 3.33% OBST CLR APCH SFC LDG RWY 21 terminates at THR, not RWS end.					
Slope 0.1% down to NE. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	947(3107)(1.6)	1116(3661)(1.9)	1233(4045)(2.2)	1320(4331)(2.5)
RWY21-	1102(3615)(1.6)	1180(3871)(1.9)	1237(4058)(2.2)	1279(4196)(2.5) 1357(4452)(3.3)

**BUSSELTON**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(4)	2460 (8071)	2520 (8268) (1.9%)	2460 (8071)	2460 (8071)
RESA dimensions 90M X 240M commences from RWY end.					
21	(4)	2460 (8071)	2520 (8268) (2.53%)	2460 (8071)	2460 (8071)
RESA dimensions 90M X 240M commences from RWY end.					
Slope Level. RWY WID 45 RWS WID 280 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	2459(8067)(1.6)	2519(8264)(1.9)		
RWY21-	1958(6424)(1.6)	2212(7257)(1.9)	2397(7864)(2.2)	2515(8251)(2.5)

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**CAIRNS/CAIRNS INTL**

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(4)	3156 (10354)	3256 (10682) (7.5%)	3156 (10354)	3156 (10354)
RESA dimensions 90M X 90M commences from SWY end. OBST unlit (fence) APRX BRG 150 MAG 3219.9M FM RWY 15 THR 16.75FT AMSL not part of TODA STODA gradients.					
33	(4)	3196 (10485)	3256 (10682) (6.54%)	3196 (10485)	3156 (10354)
RESA dimensions 90M X 90M commences from SWY end. RWS variation - RWY 15 (North end) is 300M, reduced to 180M at 1804M FM THR. RWY 33 (South end) is 180M, increased to 300M at 1352M FM THR. Slope Level. RWY WID 45 RWS WID 300 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY15-	2853(9360)(1.6)	2994(9823)(1.9)	3057(10029)(2.2)	3093(10148)(2.5)	3151(10338)(3.3)
	3216(10551)(5.0)				
RWY33-	2593(8507)(1.6)	2876(9436)(1.9)	3083(10115)(2.2)	3163(10377)(2.5)	3211(10535)(3.3)
	3250(10663)(5.0)				

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY15-	TKOF from TWY A2;	RWY remaining 1764(5787)	reduce all DIST by 1392(4567)
RWY15-	TKOF from TWY A3;	RWY remaining 1492(4895)	reduce all DIST by 1664(5459)
RWY15-	TKOF from TWY B2;	RWY remaining 2545(8350)	reduce all DIST by 611(2005)
RWY15-	TKOF from TWY B3;	RWY remaining 1771(5810)	reduce all DIST by 1385(4544)
RWY33-	TKOF from TWY A3;	RWY remaining 1685(5528)	reduce all DIST by 1511(4957)
RWY33-	TKOF from TWY A4;	RWY remaining 2181(7155)	reduce all DIST by 1015(3330)
RWY33-	TKOF from TWY B4;	RWY remaining 2181(7155)	reduce all DIST by 1015(3330)
RWY33-	TKOF from TWY B5;	RWY remaining 2584(8478)	reduce all DIST by 612(2008)

**CAMDEN**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	1464 (4803)	1524 (5000) (4.67%)	1464 (4803)	1464 (4803)
24	(2)	1464 (4803)	1524 (5000) (4.96%)	1464 (4803)	1157 (3796)
RWY 24 DTHR 307M. Slope 0.2% down to SW. RWY WID 30 RWS WID 90					
10	(1)	723 (2372)	753 (2470) (3.43%)	723 (2372)	723 (2372)
28	(1)	723 (2372)	753 (2470) (2.34%)	723 (2372)	723 (2372)
Slope 0.2% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1093(3586)(2.5)	1104(3622)(3.3)			
RWY24-	1037(3402)(2.2)	1142(3747)(2.5)	1329(4360)(3.3)		

**CAMOOWEAL**

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(1)	1238 (4062)	1268 (4160) (4.66%)	1238 (4062)	1238 (4062)
RESA dimensions 60M X 60M commences from RWY end.					
31	(1)	1238 (4062)	1268 (4160) (2.2%)	1238 (4062)	1238 (4062)
RESA dimensions 60M X 60M commences from RWY end. Slope level. RWY WID 18 RWS WID 60					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY13-	1168(3832)(1.6)	1219(3999)(1.9)	1230(4035)(2.2)	1238(4062)(2.5)	1254(4114)(3.3)
RWY31-	1146(3760)(1.6)	1216(3989)(1.9)			

**CANBERRA**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(2)	1679 (5508)	1739 (5705) (4.92%)	1679 (5508)	1316 (4318)

RESA dimensions 60M X 90M commences from RWS end.

1. RWY 12 DTHR 363M.

2. OBST fence 10.5FT ABV and 19M SE of RWY strip end, and transient OBST 16.2FT ABV and 10M SE of RWY strip end are not taken into account in the calculation of TODA gradient and STODA.

30	(2)	1679 (5508)	1739 (5705) (3.95%)	1679 (5508)	1614 (5295)
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RESA dimensions 60M X 60M commences from RWY end.

1. RWY 30 THR location determined by 5% APCH GRAD.

2. RWY 12/30 WID 30M Code 2C.

3. RWY 30 DTHR 65M.

Slope 0.7% down to NW. RWY WID 30 RWS WID 90

17	(4)	2983 (9787)	3073 (10082) (2.35%)	2983 (9787)	2983 (9787)
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RESA dimensions 90M X 240M commences from RWS end.

1. RWY 17 THR location determined by 5.33% approach GRAD.

2. Critical OBST, terrain 2,890FT AMSL, located 1,016M R of RCL and 5,820M before THR.

3. CAUTION: Fence 10FT ABV and 50M S of RWS end and transient OBST up to 17.7FT ABV and 62M S of RWS end are not taken into account in calculation of TODA GRAD and STODA.

4. RWY 17 end 300M South TWY N.

35	(4)	3283 (10771)	3343 (10968) (4.53%)	3283 (10771)	2683 (8802)
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RESA dimensions 90M X 240M commences from RWS end.

1. RWY 35 DTHR 300M (from RWY 17 end).

2. RWY 35 THR location determined by 3.3% APCH GRAD.

3. Critical OBST, terrain 2690FT, located 1300M R of RCL and 9800M before THR.

4. RWY 35 TORA starts at TWY P.

Slope 0.1% down to S. RWY WID 45 RWS WID 300 Graded 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY30- 979(3212)(2.2) 1265(4150)(2.5) 1676(5499)(3.3)

RWY17- 1771(5810)(1.9) 3031(9944)(2.2)

RWY35- 1109(3638)(3.3)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY17- TKOF from TWY D; RWY remaining 1728(5669) reduce all DIST by 1255(4117)

RWY17- TKOF from TWY F; RWY remaining 2420(7940) reduce all DIST by 563(1847)

RWY35- TKOF from TWY C; RWY remaining 1955(6414) reduce all DIST by 1328(4357)

RWY35- TKOF from TWY G; RWY remaining 1810(5938) reduce all DIST by 1473(4833)

RWY35- TKOF from TWY M; RWY remaining 2116(6942) reduce all DIST by 1167(3829)

RWY35- TKOF from TWY N; RWY remaining 2683(8802) reduce all DIST by 600(1968)

**CAPE PRESTON**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	2000 (6562)	2060 (6758) (1.51%)	2000 (6562)	2000 (6562)

RESA dimensions 90M X 60M commences from RWS end.

26	(3)	2000 (6562)	2060 (6758) (1.68%)	2000 (6562)	2000 (6562)
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RESA dimensions 90M X 60M commences from RWS end.

RWY 08/26 150M APCH SFC baseline.

Slope 0.02% down to W. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY26- 2035(6676)(1.6)

**CARNARVON**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1619 (5312)	1679 (5508) (2.14%)	1619 (5312)	1619 (5312)
RWY 04 has non-standard approach surface - inner edge of APCH SFC 40M from RWY end.					
22	(3)	1619 (5312)	1679 (5508) (3.85%)	1619 (5312)	1619 (5312)
RWY 22 OBST fence 7FT AGL, 85M left of CL. TKOF GRAD to levee bank 6.8%. Slope 0.1% down to SW. RWY WID 30 RWS WID 150					
18	(1)	1140 (3740)	1200 (3937) (2%)	1140 (3740)	1140 (3740)
36	(1)	1140 (3740)	1200 (3937) (4.14%)	1140 (3740)	1140 (3740)
OBST fence 4FT AGL 28M N of RWS end. TKOF GRAD 4.7%. Slope 0.1% down to S. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1344(4409)(1.6)	1556(5105)(1.9)			
RWY22-	1176(3858)(1.6)	1308(4291)(1.9)	1406(4613)(2.2)	1481(4859)(2.5)	1617(5305)(3.3)
RWY18-	1072(3517)(1.6)	1192(3911)(1.9)			
RWY36-	885(2904)(1.9)	983(3225)(2.2)	1057(3468)(2.5)	1185(3888)(3.3)	

**CAROSUE DAM**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	2000 (6562)	2060 (6758) (2.04%)	2000 (6562)	2000 (6562)
24	(3)	2000 (6562)	2060 (6758) (2.27%)	2000 (6562)	2000 (6562)
RWY 06/24 APCH inner edge length 150M. Slope rises at 0.8% FM 06 THR and rises at 0.55% FM 24 THR. Highest point in centre of RWY. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1981(6499)(1.6)	2039(6690)(1.9)			
RWY24-	1943(6375)(1.6)	2004(6575)(1.9)	2050(6726)(2.2)		

**CARRAPATEENA**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	1600 (5249)	1660 (5446) (1.2%)	1600 (5249)	1600 (5249)
19	(3)	1600 (5249)	1660 (5446) (4.43%)	1600 (5249)	1600 (5249)
OBST (fence) 82M W and 0.5M ABV CWY TKOF RWY 19 not taken into account in calculation of TODA GRAD and STODA. Slope Level. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY19-	1560(5118)(1.6)	1588(5210)(1.9)	1608(5276)(2.2)	1624(5328)(2.5)	1651(5417)(3.3)
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**CEDUNA**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1740 (5709)	1800 (5905) (1.89%)	1740 (5709)	1740 (5709)
29	(3)	1740 (5709)	1800 (5905) (1.54%)	1740 (5709)	1740 (5709)
Slope 0.3% down to NW. RWY WID 30 RWS WID 150 Graded 90					
17	(2)	1014 (3327)	1074 (3524) (1.6%)	1014 (3327)	1014 (3327)
35	(2)	1014 (3327)	1074 (3524) (3%)	1014 (3327)	1014 (3327)
Slope 0.1% down to S. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1455(4774)(1.6)				
RWY35-	878(2881)(1.6)	962(3156)(1.9)	1009(3310)(2.2)	1038(3405)(2.5)	

**CENTURY MINE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
14	(3)	1750 (5741)	1810 (5938) (3.7%)	1750 (5741)	1750 (5741)
APCH GRAD to THR 14 at NW end is 2.25% for 150M APCH inner edge WID with 15% diversion splays.					
32	(3)	1750 (5741)	1810 (5938) (2.28%)	1750 (5741)	1410 (4626)
1. RWY 32 DTHR 340M.					
2. APCH GRAD to 340M DISP THR 32 at SE end is 3.28% for 150M APCH inner edge WID with 15% diversion splays.					
Slope Level. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14-	1479(4852)(3.3)				
RWY32-	1708(5604)(1.6)	1789(5869)(1.9)	1807(5928)(2.2)		

**CESSNOCK**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
17	(2)	1097 (3599)	1157 (3796) (4.4%)	1097 (3599)	1097 (3599)
35	(2)	1097 (3599)	1157 (3796) (5.37%)	1097 (3599)	1097 (3599)
Slope Level 0.4%. RWY WID 23 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY17-	834(2736)(2.5)	1045(3428)(3.3)			
RWY35-	833(2733)(2.2)	920(3018)(2.5)	1082(3550)(3.3)	1149(3770)(5.0)	

**CHARLEVILLE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
12	(3)	1524 (5000)	1676 (5499) (3.38%)	1524 (5000)	1524 (5000)
30	(3)	1524 (5000)	1676 (5499) (3.49%)	1524 (5000)	1524 (5000)
CAUTION: NW end RWY 30 unlit OBST fence 8FT ABV and 98M NE of RWS CL has not been taken into account in the calculation of TODA GRAD and STODA.					
Slope 0.3% down to NW. RWY WID 30 RWS WID 150 Graded 90					
18	(2)	1067 (3501)	1127 (3697) (2.56%)	1067 (3501)	1067 (3501)
36	(2)	1067 (3501)	1127 (3697) (1.7%)	1067 (3501)	1067 (3501)
Slope Level. RWY WID 23 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	1194(3917)(1.6)	1352(4436)(1.9)	1460(4790)(2.2)	1537(5043)(2.5)	1667(5469)(3.3)
RWY30-	1386(4547)(1.6)	1522(4993)(1.9)	1577(5174)(2.2)	1608(5276)(2.5)	1666(5466)(3.3)
RWY18-	857(2812)(1.6)	970(3182)(1.9)	1052(3451)(2.2)	1116(3661)(2.5)	
RWY36-	1076(3530)(1.6)				

**CHARTERS TOWERS**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(1)	1005 (3297)	1065 (3494) (5.83%)	1005 (3297)	1005 (3297)
RESA dimensions 90M X 60M commences from RWY end.					
19	(1)	1005 (3297)	1065 (3494) (2.73%)	1005 (3297)	1005 (3297)
RESA dimensions 90M X 60M commences from RWY end. RWY 01/19 survey inner edge 60M. Slope Level. RWY WID 23 RWS WID 60					
06	(3)	1736 (5695)	1796 (5892) (3.53%)	1736 (5695)	1736 (5695)
RESA dimensions 90M X 60M commences from RWY end.					
24	(3)	1736 (5695)	1796 (5892) (3.29%)	1736 (5695)	1736 (5695)
RESA dimensions 90M X 60M commences from RWY end. RWY 06/24 survey inner edge 180M. Slope from point 420M FM SW end: 0.56% down to SW; 0.92% down to NE. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	829(2720)(1.9)	868(2848)(2.2)	900(2953)(2.5)	964(3163)(3.3)
RWY19-	885(2904)(2.5)			
RWY06-	1511(4957)(1.6)	1590(5216)(1.9)	1641(5384)(2.2)	1683(5522)(2.5)
RWY24-	1172(3845)(2.5)			1777(5830)(3.3)

**CHILLAGOE**

RWY	(CN)	TORA	TODA	ASDA	LDA
17	(1)	981 (3218)	1041 (3415) (5.7%)	981 (3218)	981 (3218)
Fence 30M S of RWS, 6FT ABV CWY not taken into account in calculation of TODA GRAD and STODA.					
35	(1)	981 (3218)	1041 (3415) (5.34%)	981 (3218)	981 (3218)
Slope 0.9% down to N. RWY WID 18 RWS WID 90 Graded 80					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY17-	951(3120)(3.3)	1024(3360)(5.0)		
RWY35-	810(2657)(1.9)	850(2789)(2.2)	882(2894)(2.5)	948(3110)(3.3)
				984(3228)(5.0)

**CHINCHILLA**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(1)	593 (1946)	623 (2044) (3.33%)	593 (1946)	593 (1946)
RESA dimensions 60M X 60M commences from RWS end.					
21	(1)	593 (1946)	623 (2044) (3.84%)	593 (1946)	593 (1946)
Slope NE end 0.2% down to SW, SW end 0.6% down to NE. RWY WID 18 RWS WID 60 Graded 60					
14	(1)	1069 (3507)	1269 (4163) (2.81%)	1205 (3953)	1069 (3507)
RESA dimensions 60M X 90M commences from RWS end.					
32	(1)	1069 (3507)	1265 (4150) (3.51%)	1205 (3953)	1069 (3507)
RESA dimensions 60M X 90M commences from RWS end. Slope NW end 0.6% down to SE, SE end 0.2% down to NW. RWY WID 18 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14-	914(2999)(1.9)	1075(3527)(2.2)	1186(3891)(2.5)	
RWY32-	878(2881)(1.9)	1017(3337)(2.2)	1111(3645)(2.5)	1246(4088)(3.3)

**CHRISTMAS CREEK**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(4)	2500 (8202)	2560 (8399) (1.99%)	2500 (8202)	2500 (8202)
		RESA dimensions 90M X 90M commences from RWY end.			
27	(4)	2500 (8202)	2560 (8399) (1.71%)	2500 (8202)	2500 (8202)
		RESA dimensions 90M X 90M commences from RWY end.			
		Slope 0.23% down to E. RWY WID 45 RWS WID 300 Graded 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	2461(8074)(1.6)	2539(8330)(1.9)
RWY27-	2476(8123)(1.6)	

**CHRISTMAS ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(4)	2103 (6900)	2164 (7100) (1.53%)	2103 (6900)	2103 (6900)
		RESA dimensions 60M X 45M commences from RWY end.			
36	(4)	2103 (6900)	2164 (7100) (3.83%)	2103 (6900)	2103 (6900)
		RESA dimensions 60M X 45M commences from RWY end.			
		APCH SFC based on 150M inner edge.			
		Slope 464M N end 1.0% down to S; centre 1100M 2% down to S; 539M S end 1.1% down to S. RWY WID 45 RWS WID 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY36-	1153(3783)(2.2)	1899(6230)(2.5)	2138(7014)(3.3)
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**CLERMONT**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(2)	1068 (3504)	1128 (3701) (5.03%)	1068 (3504)	1068 (3504)
19	(2)	1068 (3504)	1128 (3701) (4.13%)	1068 (3504)	1068 (3504)
		Slope 0.9% down to N. RWY WID 30 RWS WID 90			
15	(2)	1311 (4301)	1371 (4498) (2.83%)	1311 (4301)	1311 (4301)
		RESA dimensions 60M X 60M commences from RWY end.			
33	(2)	1311 (4301)	1371 (4498) (10.74%)	1311 (4301)	1311 (4301)
		RESA dimensions 60M X 60M commences from RWY end.			
		1. RWY 15/33 TKOF SFC survey based on 150M inner edge WID splay to 15,000M.			
		2. 5FT high grass bank 60M W of THR 15 ignored in RWY 33 TKOF TODA gradient.			
		Slope overall 0.5% down to SE. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	859(2818)(2.5)	986(3235)(3.3)	1127(3697)(5.0)		
RWY19-	1017(3337)(3.3)				
RWY15-	1169(3835)(1.6)	1239(4065)(1.9)	1292(4239)(2.2)	1334(4377)(2.5)	
RWY33-	830(2723)(1.6)	948(3110)(1.9)	1028(3373)(2.2)	1086(3563)(2.5)	1183(3881)(3.3)
	1279(4196)(5.0)				

**CLEVE**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1350 (4429)	1410 (4626) (1.67%)	1350 (4429)	1350 (4429)
26	(2)	1350 (4429)	1410 (4626) (3.8%)	1350 (4429)	1350 (4429)
		Slope 0.9% down to E. RWY WID 18 RWS WID 90			
18	(1)	895 (2936)	925 (3035) (1.71%)	895 (2936)	895 (2936)
36	(1)	895 (2936)	925 (3035) (3.87%)	895 (2936)	895 (2936)
		Slope 1.1% down to S. RWY WID 18 RWS WID 60			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	1376(4514)(1.6)		
RWY26-	856(2808)(2.2)	1004(3294)(2.5)	1313(4308)(3.3)
RWY18-	898(2946)(1.6)		



**CLONCURRY**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(1)	1157 (3796)	1217 (3993) (2.2%)	1157 (3796)	1157 (3796)
24	(1)	1157 (3796)	1217 (3993) (2.15%)	1157 (3796)	1157 (3796)
Slope Level. RWY WID 18 RWS WID 60					
12	(3)	2000 (6562)	2060 (6758) (1.7%)	2000 (6562)	2000 (6562)
RESA dimensions 60M X 30M commences from RWY end.					
30	(3)	2000 (6562)	2060 (6758) (3.74%)	2000 (6562)	2000 (6562)
RESA dimensions 60M X 30M commences from RWY end.					
Slope 0.1% down to NW. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06- 1107(3632)(1.6) 1171(3842)(1.9)  
 RWY24- 1083(3553)(1.6) 1166(3825)(1.9)  
 RWY12- 2029(6657)(1.6)  
 RWY30- 1508(4947)(1.6) 1806(5925)(1.9) 1876(6155)(2.2) 1930(6332)(2.5) 2025(6644)(3.3)

**COBAR**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1696 (5564)	1756 (5761) (7.53%)	1696 (5564)	1607 (5272)
RWY 05 DTHR 89M.					
23	(3)	1696 (5564)	1756 (5761) (4.48%)	1696 (5564)	1607 (5272)
RWY 23 DTHR 89M.					
Slope 0.4% down to SW. RWY WID 30 RWS WID 150 Graded 90					
17	(2)	899 (2949)	959 (3146) (5.05%)	899 (2949)	899 (2949)
35	(2)	899 (2949)	959 (3146) (1.72%)	899 (2949)	899 (2949)
Slope 0.1% down to N. RWY WID 23 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05- 1175(3855)(1.6) 1340(4396)(1.9) 1454(4770)(2.2) 1530(5020)(2.5) 1618(5308)(3.3)  
 1704(5590)(5.0)  
 RWY23- 1647(5403)(1.6) 1676(5499)(1.9) 1691(5548)(2.2) 1706(5597)(2.5) 1733(5686)(3.3)  
 RWY17- 806(2644)(2.2) 839(2753)(2.5) 898(2946)(3.3) 958(3143)(5.0)  
 RWY35- 893(2930)(1.6)

**COCOS (KEELING) ISLANDS**

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(4)	2441 (8008)	2501 (8205) (3.5%)	2441 (8008)	2441 (8008)
RESA dimensions 60M X 45M commences from RWY end.					
33	(4)	2441 (8008)	2502 (8209) (1.85%)	2441 (8008)	2441 (8008)
RESA dimensions 60M X 45M commences from RWY end.					
1. Transitional surfaces infringed.					
2. APCH SFC based on 150M inner edge.					
Slope Level. RWY WID 45 RWS WID 150 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY15- 2289(7510)(1.6) 2418(7933)(1.9) 2446(8025)(2.2) 2464(8084)(2.5) 2496(8189)(3.3)  
 RWY33- 2338(7671)(1.6)

**COEN**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
11	(2)	1389 (4557)	1449 (4754) (2.94%)	1389 (4557)	1389 (4557)
		RESA dimensions 60M X 90M commences from RWS end.			
29	(2)	1389 (4557)	1449 (4754) (2.04%)	1389 (4557)	1389 (4557)
		RESA dimensions 60M X 90M commences from RWS end.			
		Slope 0.29% down to W. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1027(3369)(1.6)	1189(3901)(1.9)	1298(4258)(2.2)	1377(4518)(2.5)
RWY29-	1321(4334)(1.6)	1413(4636)(1.9)		

**COFFS HARBOUR**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
03	(4)	2080 (6824)	2140 (7021) (3.08%)	2080 (6824)	2080 (6824)
21	(4)	2080 (6824)	2140 (7021) (2.73%)	2080 (6824)	2080 (6824)
		Slope 0.1% down to SW. RWY WID 45 RWS WID 150			
10	(1)	851 (2792)	881 (2890) (3.53%)	851 (2792)	726 (2382)
		RWY 10 DTHR 125M.			
28	(1)	851 (2792)	881 (2890) (6.64%)	851 (2792)	851 (2792)
		Slope 0.3% down to W. RWY WID 18 RWS WID 80			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	892(2926)(1.9)	1349(4426)(2.2)	1685(5528)(2.5)	
RWY21-	1372(4501)(1.6)	1677(5502)(1.9)	1917(6289)(2.2)	2072(6798)(2.5)
RWY10-	870(2854)(3.3)			
RWY28-	835(2739)(5.0)			

**CONDOBOLIN**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
01	(3)	1372 (4501)	1462 (4797) (3.9%)	1372 (4501)	1372 (4501)
		RESA dimensions 90M X 90M commences from RWY end.			
19	(3)	1372 (4501)	1552 (5092) (1.76%)	1372 (4501)	1372 (4501)
		RESA dimensions 180M X 90M commences from RWY end.			
		Unlit OBST fence 1.0FT ABV RWS end PARL to RWY, 85M W of RCL end is not included in the calculation of TODA GRAD and STODA.			
		Slope 430M end level, 0.9% down to S, 150M S end level. RWY WID 30 RWS WID 150 Graded 90			
10	(2)	1203 (3947)	1263 (4144) (2.39%)	1203 (3947)	1203 (3947)
		RESA dimensions 60M X 90M commences from RWY end.			
28	(2)	1203 (3947)	1263 (4144) (2.96%)	1203 (3947)	1203 (3947)
		RESA dimensions 60M X 90M commences from RWY end.			
		Slope 0.2% centre down to both ends. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	941(3087)(1.9)	1087(3566)(2.2)	1193(3914)(2.5)	1380(4528)(3.3)
RWY19-	1470(4823)(1.6)			
RWY10-	1061(3481)(1.6)	1151(3776)(1.9)	1232(4042)(2.2)	
RWY28-	921(3022)(1.6)	1041(3415)(1.9)	1118(3668)(2.2)	1179(3868)(2.5)

**COOBER PEDY**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
04	(3)	1428 (4685)	1680 (5512) (1.96%)	1608 (5276)	1428 (4685)
22	(3)	1428 (4685)	1680 (5512) (1.2%)	1608 (5276)	1428 (4685)
RWY 04/22 ASDA 1613(5292) AVBL HJ.					
Slope 0.24% down to SW. RWY WID 30 RWS WID 150 Graded 90					
14	(2)	829 (2720)	889 (2917) (2.05%)	829 (2720)	829 (2720)
32	(2)	829 (2720)	889 (2917) (2.48%)	829 (2720)	829 (2720)
Slope 0.24% down to NW and 0.2% down to SE. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1649(5410)(1.6)	1676(5499)(1.9)		
RWY14-	858(2815)(1.6)	880(2887)(1.9)		
RWY32-	859(2818)(1.6)	872(2861)(1.9)	882(2894)(2.2)	

**COOKTOWN**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
11	(3)	1627 (5338)	1687 (5535) (3.84%)	1627 (5338)	1567 (5141)
RESA dimensions 90M X 90M commences from RWS end.					
29	(3)	1567 (5141)	1627 (5338) (3.4%)	1567 (5141)	1567 (5141)
RESA dimensions 90M X 90M commences from RWY end.					
OBST fence 5.3FT ABV, 45M left of CL, 13M from RWS not taken into account in calculation of TODA GRAD and STODA. RWY reference code based on 150M approach and TKOF inner edge WID.					
Slope 0.2% down to E. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	964(3163)(1.6)	1108(3635)(1.9)	1257(4124)(2.2)	1374(4508)(2.5)	1597(5239)(3.3)
RWY29-	1050(3445)(1.9)	1244(4081)(2.2)	1376(4514)(2.5)	1614(5295)(3.3)	

**COOMA - SNOWY MOUNTAINS**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
18	(3)	2120 (6955)	2180 (7152) (1.4%)	2120 (6955)	1910 (6266)
RESA dimensions 90M X 90M commences from RWY end.					
36	(3)	2120 (6955)	2180 (7152) (4.18%)	2120 (6955)	2120 (6955)
RESA dimensions 90M X 90M commences from RWY end.					
1. RWY 18 DTHR 210M.					
2. Caution: Fence 8.8FT ABV and 2M N of RWS end, and transient OBST up to 21.1FT ABV and 15M N of RWS end are not taken into account in determining TODA GRAD and STODA.					
Slope 0.5% down to N. RWY WID 30 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY36-	980(3215)(1.9)	1349(4426)(2.2)	1649(5410)(2.5)	2148(7047)(3.3)	
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**COONABARABRAN**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(1)	649 (2129)	709 (2326) (2.06%)	649 (2129)	649 (2129)
19	(1)	649 (2129)	709 (2326) (1.2%)	649 (2129)	649 (2129)
Slope 0.2% DOWN to S. RWY WID 60 RWS WID 90 Graded 60					
11	(3)	1520 (4987)	1671 (5482) (2.76%)	1611 (5285)	1520 (4987)
29	(3)	1520 (4987)	1610 (5282) (5.66%)	1520 (4987)	1520 (4987)

1. CAUTION: OBST fences 6FT high and PARL to RWY, 73M N and S of RCL are not taken into account in the calculation of TODA GRAD and STODA.

Slope 0.2% down to E for W 600(1969) 0.3% down to W for remainder. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1607(5272)(1.6)	1632(5354)(1.9)	1650(5413)(2.2)	1663(5456)(2.5)	
RWY29-	1004(3294)(1.9)	1332(4370)(2.2)	1391(4564)(2.5)	1494(4902)(3.3)	1588(5210)(5.0)

**COONAMBLE**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1527 (5010)	1587 (5207) (6.85%)	1527 (5010)	1527 (5010)
Unlit OBST fence 5.2FT ABV RWS, PARL and 92M SE of RCL is not taken into account when determining TODA GRAD and STODA.					
23	(3)	1527 (5010)	1587 (5207) (2.38%)	1527 (5010)	1527 (5010)
1. Transitional SFC infringed by line of trees 23FT AGL APRX 90M FM RCL each side of RWY. 2. CAUTION: Unlit OBST fence 3.1FT ABV RWS, PARL and 84M NW of RCL is not taken into account in determining TODA GRAD and STODA.					
Slope Level. RWY WID 30 RWS WID 150 Graded 90					
12	(1)	580 (1903)	640 (2100) (3.55%)	580 (1903)	580 (1903)
30	(1)	580 (1903)	640 (2100) (2.3%)	580 (1903)	580 (1903)
Slope 0.2% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	899(2949)(1.6)	1068(3504)(1.9)	1167(3829)(2.2)	1246(4088)(2.5)	1380(4528)(3.3)
	1515(4970)(5.0)				
RWY23-	1111(3645)(1.6)	1343(4406)(1.9)	1509(4951)(2.2)		

**COONDEWANNA**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	1950 (6398)	2080 (6824) (3.38%)	1950 (6398)	1800 (5905)
RESA dimensions 90M X 60M commences from RWY end.					
26	(3)	1930 (6332)	2080 (6824) (1.81%)	1930 (6332)	1800 (5905)
RESA dimensions 90M X 60M commences from RWY end.					
1. RWY 26 TKOF SFC area surveyed to 10,000M. 2. RWY 08/26 TORA, TODA & ASDA begin at RWS end. 3. RWY 08/26 APCH inner edge length 150M.					
Slope 0.7% down to W. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	1090(3576)(1.6)	1831(6007)(1.9)	1923(6309)(2.2)	1983(6506)(2.5)	2073(6801)(3.3)
RWY26-	2054(6739)(1.6)				

**COOTAMUNDRA**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(1)	855 (2805)	915 (3002) (4.14%)	855 (2805)	855 (2805)
28	(1)	855 (2805)	915 (3002) (3.21%)	855 (2805)	855 (2805)
Slope 0.5% down to W. RWY WID 30 RWS WID 90					
16	(2)	1406 (4613)	1466 (4810) (15.08%)	1406 (4613)	1406 (4613)
34	(2)	1406 (4613)	1466 (4810) (2.91%)	1406 (4613)	1126 (3694)
RWY 34 PERM DTHR 280M indicated by 6 green inset lights.					
Slope Level. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY16- 881(2890)(1.9) 1003(3291)(2.2) 1081(3547)(2.5) 1201(3940)(3.3) 1324(4344)(5.0)  
 RWY34- 835(2739)(1.6) 1092(3583)(1.9) 1306(4285)(2.2) 1455(4774)(2.5)

**COROWA**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1528 (5013)	1588 (5210) (2.04%)	1528 (5013)	1528 (5013)
Side TNS infringed by isolated trees.					
23	(2)	1528 (5013)	1588 (5210) (3.28%)	1528 (5013)	1528 (5013)
Slope Level. RWY WID 23 RWS WID 150					
14	(1)	1282 (4206)	1342 (4403) (1.83%)	1282 (4206)	1282 (4206)
RWY 14 W side transitional surface infringed by isolated trees.					
32	(1)	1282 (4206)	1342 (4403) (3.06%)	1282 (4206)	1282 (4206)
Slope Level. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05- 1240(4068)(1.6) 1498(4915)(1.9)  
 RWY23- 858(2815)(1.6) 1083(3553)(1.9) 1248(4094)(2.2) 1374(4508)(2.5)  
 RWY14- 1183(3881)(1.6)  
 RWY32- 936(3071)(1.9) 1089(3573)(2.2) 1198(3930)(2.5)

**CORRYONG**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	1401 (4596)	1461 (4793) (1.79%)	1401 (4596)	1324 (4344)
1. LDG RWY 06 - Unlit OBST fence 2.8FT ABV and 23M W of RWS end.					
2. Transient OBST 12FT ABV and 48M E of RWS end has not been taken into account in the calculation of TODA GRAD and STODA.					
3. RWY 06 DTHR 77M.					
24	(2)	1401 (4596)	1461 (4793) (2.91%)	1401 (4596)	1314 (4311)
1. CAUTION: OBST fence 2.8FT ABV and 23M SW of RWS end has not been taken into account in the calculation of the TODA GRAD and STODA. TKOF SFC survey RWY 06/24 based on 90M WID and 10,000M clearance plane.					
2. Transient OBST 14FT ABV and 45M W of RWS end has not been taken into account in the calculation of TODA GRAD and STODA.					
3. RWY 24 DTHR 87M.					
4. RWY 06/24 transitional SFC infringed by isolated trees.					
Slope 0.3% down to NE. RWY WID 30 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06- 1396(4580)(1.6)  
 RWY24- 997(3271)(2.2) 1222(4009)(2.5)

**COWRA**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
03	(1)	1166 (3825)	1226 (4022) (3.31%)	1166 (3825)	1166 (3825)
Fence 6.7FT ABV and 31M NE of RWS end not taken into account in the calculation of TODA, GRAD and STODA.					
21	(1)	1166 (3825)	1226 (4022) (2.46%)	1166 (3825)	1166 (3825)
Slope 0.3% down to SW. RWY WID 30 RWS WID 80					
15	(3)	1630 (5348)	1706 (5597) (4.7%)	1630 (5348)	1630 (5348)
OBST fence 2.0FT ABV and PARL to RWY, 59M W of RCL not taken into account in calculation of TODA GRAD and STODA.					
33	(3)	1630 (5348)	1720 (5643) (4.34%)	1630 (5348)	1630 (5348)
Fence 2.4FT ABV and at RWS end not taken into account in the calculation of TODA, GRAD and STODA.					
Slope 0.1% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	833(2733)(1.9)	961(3153)(2.2)	1071(3514)(2.5)	1225(4019)(3.3)
RWY21-	807(2648)(1.6)	974(3195)(1.9)	1123(3684)(2.2)	
RWY15-	986(3235)(2.2)	1217(3993)(2.5)	1632(5354)(3.3)	
RWY33-	1331(4367)(1.6)	1429(4688)(1.9)	1501(4924)(2.2)	1555(5102)(2.5) 1650(5413)(3.3)

**CROKER ISLAND**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
13	(2)	1433 (4701)	1496 (4908) (1.77%)	1433 (4701)	1433 (4701)
31	(2)	1433 (4701)	1496 (4908) (2.61%)	1433 (4701)	1433 (4701)
Slope 0.8% down to each end from 600M (1970) from SE end. RWY WID 23 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY13-	1454(4770)(1.6)			
RWY31-	1177(3862)(1.6)	1335(4380)(1.9)	1423(4669)(2.2)	1479(4852)(2.5)

**CUE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
04	(3)	1980 (6496)	2040 (6693) (2.07%)	1980 (6496)	1980 (6496)
RESA dimensions 90M X 60M commences from RWS end.					
22	(3)	1980 (6496)	2040 (6693) (2.09%)	1980 (6496)	1980 (6496)
RESA dimensions 90M X 60M commences from RWS end.					
APCH RWY survey areas - RWY 04/22 APCH inner edge 150M.					
Slope 0.41% down to SW. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1905(6250)(1.6)	2000(6562)(1.9)		
RWY22-	1980(6496)(1.6)	2019(6624)(1.9)		

**CUNDERDIN**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1841 (6040)	1901 (6237) (2.55%)	1841 (6040)	1841 (6040)
RESA dimensions 285M X 45M commences from RWY end.					
23	(3)	1841 (6040)	1901 (6237) (2.64%)	1841 (6040)	1841 (6040)
RESA dimensions 60M X 45M commences from RWY end.					
Slope 0.25% down to SW. RWY WID 30 RWS WID 90					
14	(3)	1509 (4951)	1569 (5148) (1.72%)	1509 (4951)	1509 (4951)
RESA dimensions 60M X 45M commences from RWY end.					
1. OBST FENCE 4FT AGL 6M SE FM RWS END GRAD 20%					
32	(3)	1509 (4951)	1569 (5148) (1.6%)	1509 (4951)	1509 (4951)
RESA dimensions 60M X 45M commences from RWY end.					
Slope 0.16% down to SE. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	1458(4783)(1.6)	1653(5423)(1.9)	1789(5869)(2.2)	1888(6194)(2.5)
RWY23-	1790(5873)(1.6)	1833(6014)(1.9)	1866(6122)(2.2)	1891(6204)(2.5)
RWY14-	1376(4514)(1.6)			

**CUNNAMULLA**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	914 (2999)	974 (3195) (1.6%)	914 (2999)	914 (2999)
24	(2)	914 (2999)	974 (3195) (2.1%)	914 (2999)	914 (2999)
Slope Level. RWY WID 18 RWS WID 90					
12	(3)	1733 (5686)	1793 (5882) (1.86%)	1733 (5686)	1733 (5686)
30	(3)	1733 (5686)	1793 (5882) (3.73%)	1733 (5686)	1733 (5686)
Slope 0.1% down to SE. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY24-	950(3117)(1.6)	966(3169)(1.9)		
RWY12-	1775(5823)(1.6)			
RWY30-	1715(5627)(1.6)	1737(5699)(1.9)	1753(5751)(2.2)	1765(5791)(2.5) 1786(5860)(3.3)

**CURTIN**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(MIL)	3049 (10003)	3354 (11004) (2.2%)	3049 (10003)	3049 (10003)
29	(MIL)	3049 (10003)	3354 (11004) (1%)	3049 (10003)	3049 (10003)
TKOF/Climb SFC inner edge WID 180M.					
Slope 0.46% Down to W. RWY WID 45 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	3189(10462)(1.6)	3289(10791)(1.9)	3314(10873)(2.0)	
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**DALGARANGA MINE**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1600 (5249)	1660 (5446) (1.2%)	1600 (5249)	1600 (5249)
RESA dimensions 60M X 60M commences from RWY end.					
29	(3)	1600 (5249)	1660 (5446) (1.77%)	1600 (5249)	1600 (5249)
RESA dimensions 60M X 60M commences from RWY end.					
Surveys are conducted using 90M baseline.					
Slope 0.184% down to NW. RWY WID 30 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY29- 1636(5367)(1.6)

**DARLOT**

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	1969 (6460)	2029 (6657) (2.43%)	1969 (6460)	1969 (6460)
32	(3)	1969 (6460)	2029 (6657) (1.2%)	1969 (6460)	1969 (6460)
1. OBST survey conducted to code 3 non-precision standards. TKOF and APCH SFC infringed by fence 4FT AGL parallel to RCL					
- RWY 14, 68M L and 83M R of RCL;					
- RWY 32, 69M L and 73M R of RCL.					
Slope 0.01% down to NW. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14- 1865(6119)(1.6) 1952(6404)(1.9) 2000(6562)(2.2)

**DARWIN**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(4)	3354 (11004)	3444 (11299) (2.15%)	3354 (11004)	3354 (11004)
RESA dimensions 234M X 150M commences from RWS end.					
29	(4)	3354 (11004)	3444 (11299) (1.2%)	3354 (11004)	3354 (11004)
RESA dimensions 240M X 150M commences from RWS end.					
1. RWY 11/29 OBST surveys conducted using 300M inner edge WID.					
2. RWY 11/29 Hook Cable maintenance conducted on regular basis. REF NOTAM for reduced OPR LEN details DRG periods of cable MAINT.					
3. RWY 29 APCH and TNS infringed by trees up to 18FT.					
Slope 0.2% down to SE. RWY WID 45 RWS WID 300 Graded 150					
18	(2)	1524 (5000)	1584 (5197) (1.7%)	1524 (5000)	1524 (5000)
RESA dimensions 90M X 90M commences from RWS end.					
36	(2)	1524 (5000)	1584 (5197) (1.35%)	1524 (5000)	1524 (5000)
RESA dimensions 120M X 90M commences from RWS end.					
1. RWY 36 APCH TNS E and W side infringed by trees up to 7FT.					
Slope 0.3% down to S. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11- 3073(10082)(1.6) 3289(10791)(1.9)

RWY18- 1560(5118)(1.6)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY11-	TKOF from TWY B1;	RWY remaining 2238(7342)	reduce all DIST by 1116(3661)
RWY11-	TKOF from TWY B2;	RWY remaining 2238(7342)	reduce all DIST by 1116(3661)
RWY11-	TKOF from TWY C3;	RWY remaining 2882(9455)	reduce all DIST by 472(1549)
RWY11-	TKOF from TWY C4;	RWY remaining 2897(9504)	reduce all DIST by 457(1499)
RWY11-	TKOF from TWY E1;	RWY remaining 1690(5545)	reduce all DIST by 1664(5459)
RWY11-	TKOF from TWY E2;	RWY remaining 1690(5545)	reduce all DIST by 1664(5459)
RWY29-	TKOF from TWY D;	RWY remaining 2236(7336)	reduce all DIST by 1118(3668)
RWY29-	TKOF from TWY E1;	RWY remaining 1687(5535)	reduce all DIST by 1667(5469)
RWY29-	TKOF from TWY E2;	RWY remaining 1687(5535)	reduce all DIST by 1667(5469)

**LAHSO DISTANCES**

LDA for LAHSO

RWY 29 - 2687(8816)

RWY 36 - 1146(3760)

**DEGRUSSA**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	1920 (6299)	1980 (6496) (1.71%)	1920 (6299)	1920 (6299)
27	(3)	1920 (6299)	1980 (6496) (1.25%)	1920 (6299)	1920 (6299)

Slope 0.22% down to W. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09- 1917(6289)(1.6)

**DENILQUIN**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	1219 (3999)	1369 (4491) (3.33%)	1279 (4196)	1219 (3999)
24	(3)	1219 (3999)	1369 (4491) (2.73%)	1279 (4196)	1219 (3999)

Slope 0.2% down to NE. RWY WID 30 RWS WID 150 Graded 90

12	(1)	1487 (4879)	1547 (5075) (4.14%)	1487 (4879)	1487 (4879)
30	(1)	1487 (4879)	1547 (5075) (2.71%)	1487 (4879)	1487 (4879)

Slope 0.1% down to NW. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06- 1126(3694)(1.6) 1193(3914)(1.9) 1247(4091)(2.2) 1291(4236)(2.5)  
 RWY24- 1087(3566)(1.6) 1201(3940)(1.9) 1279(4196)(2.2) 1337(4386)(2.5)  
 RWY12- 1227(4026)(1.6) 1305(4281)(1.9) 1364(4475)(2.2) 1410(4626)(2.5) 1496(4908)(3.3)  
 RWY30- 1447(4747)(1.6) 1479(4852)(1.9) 1508(4947)(2.2) 1533(5029)(2.5)

**DERBY**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	1158 (3799)	1218 (3996) (1.98%)	1158 (3799)	1158 (3799)
23	(1)	1158 (3799)	1218 (3996) (2.6%)	1158 (3799)	1158 (3799)

Fence 3FT ABV and 1270M FM SOT, across RCL has been taken into account in calculation of TODA GRAD and STODA

Slope 0.1% down to SW. RWY WID 18 RWS WID 90

11	(3)	1736 (5695)	1826 (5991) (3.47%)	1736 (5695)	1736 (5695)
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RWY 11 fences not taken into calculation of TODA GRAD and STODA.

29	(3)	1736 (5695)	1796 (5892) (2.42%)	1736 (5695)	1736 (5695)
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1. Fence 1826M FM SOT and 78M L and R of CL 5FT ABV end of TODA.
2. Fence 1885M FM SOT and on extended CL 6FT ABV end of TODA.
3. RWY 11/29 APCH inner edge length 150M. TKOF inner edge length 180M.

Slope 0.1% down to W. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05- 944(3097)(1.6) 1164(3819)(1.9)  
 RWY23- 1186(3891)(1.6) 1199(3934)(1.9) 1208(3963)(2.2) 1215(3986)(2.5)  
 RWY11- 1362(4468)(1.6) 1501(4924)(1.9) 1600(5249)(2.2) 1675(5495)(2.5) 1805(5922)(3.3)  
 RWY29- 1778(5833)(1.6) 1787(5863)(1.9) 1793(5882)(2.2)

**DEVONPORT**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
06	(4)	1838 (6030)	1898 (6227) (2.28%)	1838 (6030)	1838 (6030)
Fence 3.1FT ABV and 29.6M E of RWS end not taken into account in the calculation of TODA GRAD and STODA.					
24	(4)	1838 (6030)	1898 (6227) (2.79%)	1838 (6030)	1838 (6030)
Slope 0.1% down to W. RWY WID 45 RWS WID 300					
14	(2)	880 (2887)	940 (3084) (4.17%)	880 (2887)	880 (2887)
32	(2)	880 (2887)	940 (3084) (3.31%)	880 (2887)	880 (2887)
Slope 0.6% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1206(3957)(1.9)	1782(5846)(2.2)			
RWY24-	1196(3924)(1.9)	1579(5180)(2.2)	1857(6092)(2.5)		
RWY32-	814(2671)(1.9)	849(2785)(2.2)	876(2874)(2.5)	940(3084)(3.3)	

**DIRRANBANDI**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
01	(2)	1217 (3993)	1277 (4190) (3.45%)	1217 (3993)	1217 (3993)
19	(2)	1217 (3993)	1277 (4190) (1.76%)	1217 (3993)	1217 (3993)
CAUTION: Lit Telstra tower 1,233M FM RWY 01 SOT, 040DEG MAG, infringes inner HZS by 7M.					
Slope 0.1% down to S. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	850(2789)(1.9)	1033(3389)(2.2)	1171(3842)(2.5)	1273(4176)(3.3)	
RWY19-	1270(4167)(1.6)				

**DJARINDJIN/LOMBADINA**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
10	(1)	1200 (3937)	1260 (4134) (3.36%)	1200 (3937)	1200 (3937)
28	(1)	1200 (3937)	1260 (4134) (3.88%)	1200 (3937)	1200 (3937)
TNS infringed by trees both ends.					
Slope 0.58% down to W. RWY WID 18 RWS WID 80 Graded 45					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	874(2867)(1.9)	1014(3327)(2.2)	1105(3625)(2.5)	1257(4124)(3.3)	
RWY28-	925(3035)(1.6)	1001(3284)(1.9)	1061(3481)(2.2)	1110(3642)(2.5)	1208(3963)(3.3)

**DONALD**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
09	(1)	1166 (3825)	1226 (4022) (2.61%)	1166 (3825)	1166 (3825)
27	(1)	1166 (3825)	1226 (4022) (2.82%)	1166 (3825)	1166 (3825)
Slope 0.6% down to W. RWY WID 18 RWS WID 90					
18	(1)	788 (2585)	848 (2782) (3.06%)	788 (2585)	788 (2585)
36	(1)	788 (2585)	848 (2782) (1.2%)	788 (2585)	788 (2585)
Slope 0.7%. 200M down to S; 0.5%. 588M down to N. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	909(2982)(2.2)	1175(3855)(2.5)			
RWY27-	805(2641)(1.6)	964(3163)(1.9)	1083(3553)(2.2)	1163(3816)(2.5)	
RWY18-	802(2631)(2.5)				

**DOOMADGEE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
12	(3)	1656 (5433)	1716 (5630) (6.6%)	1656 (5433)	1656 (5433)

RESA dimensions 90M X 60M commences from RWS end.

30	(3)	1656 (5433)	1716 (5630) (3.01%)	1656 (5433)	1656 (5433)
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RESA dimensions 90M X 60M commences from RWS end.

1. Unlit OBST fence 5FT ABV RWS, 80M NE and 69M S of RWY CL has not been taken into account in the calculation of TODA GRAD and STODA.

2. Surveyed to a 150M inner edge.

Slope 0.1% down to SE. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	1214(3983)(1.6)	1374(4508)(1.9)	1445(4741)(2.2)	1496(4908)(2.5)	1589(5213)(3.3)
	1685(5528)(5.0)				

RWY30-	1353(4439)(1.6)	1477(4846)(1.9)	1567(5141)(2.2)	1634(5361)(2.5)	
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**DUBBO**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
05	(3)	1708 (5604)	1768 (5800) (1.37%)	1708 (5604)	1708 (5604)

RESA dimensions 60M X 45M commences from RWY end.

23	(3)	1708 (5604)	1768 (5800) (2.7%)	1708 (5604)	1708 (5604)
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RESA dimensions 60M X 45M commences from RWY end.

Transient OBST up to 20.5FT ABV 199M SW of RWS end and fence 13.3FT ABV 186M SW of RWS end, not taken into account in the calculation of TODA GRAD and STODA.

Slope 0.6% down to NE. Sealed blast areas 60 X 45 at RWY ends. RWY WID 45 RWS WID 150

11	(2)	1067 (3501)	1127 (3697) (2.51%)	1067 (3501)	1067 (3501)
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RESA dimensions 60M X 18M commences from RWY end.

OBST: Fence 13FT ABV and up to 103M E of RWS end, not taken into account in the calculation of TODA GRAD and STODA.

29	(2)	1067 (3501)	1127 (3697) (3.83%)	1067 (3501)	1067 (3501)
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RESA dimensions 60M X 18M commences from RWY end.

Slope 0.5% down to W. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY23-	1201(3940)(1.9)	1502(4928)(2.2)	1684(5525)(2.5)		
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RWY11-	989(3245)(2.2)	1124(3688)(2.5)			
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RWY29-	872(2861)(1.9)	935(3068)(2.2)	985(3232)(2.5)	1086(3563)(3.3)	
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**DUKETON GOLD**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
18	(3)	2000 (6562)	2060 (6758) (2.84%)	2000 (6562)	2000 (6562)

RESA dimensions 90M X 60M commences from RWY end.

36	(3)	2000 (6562)	2060 (6758) (2.45%)	2000 (6562)	2000 (6562)
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RESA dimensions 90M X 60M commences from RWY end.

APCH RWY survey areas - RWY 18/36 APCH inner edge 150M.

Slope 0.33% down to the N. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	1868(6129)(1.6)	1942(6371)(1.9)	1992(6535)(2.2)	2028(6653)(2.5)	
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RWY36-	1955(6414)(1.6)	2001(6565)(1.9)	2036(6680)(2.2)		
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**EAST JAURDI**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	1900 (6234)	1960 (6430) (2.77%)	1900 (6234)	1900 (6234)
RESA dimensions 90M X 60M commences from RWS end.					
26	(3)	1900 (6234)	1960 (6430) (2.72%)	1900 (6234)	1900 (6234)
RESA dimensions 90M X 60M commences from RWS end.					
RWY 08/26 APCH inner edge length 150M.					
Slope 0.79% down to E. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	1848(6063)(1.6)	1886(6188)(1.9)	1916(6286)(2.2)	1941(6368)(2.5)
RWY26-	1141(3743)(1.9)	1551(5089)(2.2)	1817(5961)(2.5)	

**EAST SALE**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(MIL)	2437 (7995)	2497 (8192) (1.2%)	2437 (7995)	2437 (7995)
22	(MIL)	2437 (7995)	2497 (8192) (2.19%)	2437 (7995)	2437 (7995)
TKOF/Climb SFC inner edge WID 180.					

**RUNWAY INTERSECTION DECLARED DISTANCES**

RWY 04 - TKOF from RWY 09/27; RWY remaining 1081 (3546) reduce all DIST by 1356 (4449)

RWY 22 - TKOF from RWY 09/27; RWY remaining 1417 (4649) reduce all DIST by 1020 (3346)

Slope 0.07% down to NE. RWY WID 45 RWS WID 150

09	(MIL)	2230 (7316)	2290 (7513) (2.13%)	2230 (7316)	2230 (7316)
27	(MIL)	2230 (7316)	2290 (7513) (2.52%)	2230 (7316)	2230 (7316)

TKOF/Climb SFC inner edge WID 180.

Slope down 0.12% to E. RWY WID 45 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY22-	2253(7392)(1.6)	2397(7864)(1.9)		
RWY09-	2196(7205)(1.6)	2253(7392)(1.9)		
RWY27-	2019(6624)(1.6)	2141(7024)(1.9)	2225(7300)(2.2)	2287(7503)(2.5)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY04-	TKOF from TWY A5;	RWY remaining 1261(4137)	reduce all DIST by 1176(3858)
RWY04-	TKOF from TWY H3;	RWY remaining 1825(5987)	reduce all DIST by 612(2008)
RWY22-	TKOF from TWY A5;	RWY remaining 1195(3921)	reduce all DIST by 1242(4075)
RWY22-	TKOF from TWY G;	RWY remaining 1768(5800)	reduce all DIST by 669(2195)
RWY27-	TKOF from TWY B5;	RWY remaining 1720(5643)	reduce all DIST by 510(1673)

**ECHUCA**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	510 (1673)	540 (1772) (5.44%)	510 (1673)	510 (1673)
23	(1)	510 (1673)	540 (1772) (4.17%)	510 (1673)	510 (1673)
Slope 0.1% down to W. RWY WID 30 RWS WID 60					
17	(1)	1102 (3615)	1162 (3812) (2.16%)	1102 (3615)	1102 (3615)
RESA dimensions 60M X 60M commences from RWY end.					
35	(1)	1102 (3615)	1162 (3812) (2.56%)	1102 (3615)	1102 (3615)
RESA dimensions 60M X 60M commences from RWY end.					
Slope 0.1% down to N. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY17-	969(3179)(1.6)	1090(3576)(1.9)		
RWY35-	817(2680)(1.9)	1000(3281)(2.2)	1138(3734)(2.5)	

**EDINBURGH**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
18	(MIL)	2850 (9350)	2910 (9547) (2.77%)	2850 (9350)	2560 (8399)
RWY18 DTHR 290M					
36	(MIL)	2966 (9731)	3026 (9928) (5.2%)	2966 (9731)	2850 (9350)
1. RWY36 DTHR 116M					
2. 60M blast pavement provided at both ends of RWY pavement.					
Slope 0.11% down to S. RWY WID 45 RWS WID 230 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	2812(9226)(1.6)	2848(9344)(1.9)	2858(9377)(2.0)	2875(9432)(2.2)	2896(9501)(2.5)
RWY36-	2817(9242)(1.6)	2869(9413)(1.9)	2904(9527)(2.2)	2932(9619)(2.5)	2977(9767)(3.3)
	3022(9915)(5.0)				

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY18-	TKOF from TWY E;	RWY remaining 2560(8399)	reduce all DIST by 290(951)
RWY18-	TKOF from TWY F;	RWY remaining 1666(5466)	reduce all DIST by 1184(3884)
RWY36-	TKOF from TWY B;	RWY remaining 2850(9350)	reduce all DIST by 116(381)
RWY36-	TKOF from TWY C;	RWY remaining 2190(7185)	reduce all DIST by 776(2546)

**ELCHO ISLAND**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
10	(2)	1440 (4724)	1500 (4921) (3.29%)	1440 (4724)	1440 (4724)
28	(2)	1440 (4724)	1500 (4921) (1.2%)	1440 (4724)	1440 (4724)

1. RWY 10/28 OBST surveys are conducted using 90M inner edge width.
  2. OBST trees 90FT AGL PSN 110M N and 120M S of CL full length infringes RWY 10/28 transitional SFC by up to 25FT.
- Slope 0.2% down to SE. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	1007(3304)(1.9)	1169(3835)(2.2)	1291(4236)(2.5)
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**ELIWANA**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
10	(3)	2500 (8202)	2560 (8399) (1.88%)	2500 (8202)	2500 (8202)
RESA dimensions 90M X 60M commences from RWY end.					
28	(3)	2500 (8202)	2560 (8399) (1.8%)	2500 (8202)	2500 (8202)
RESA dimensions 90M X 60M commences from RWY end.					

Slope 0.1% down to W. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	2497(8192)(1.6)
RWY28-	2531(8304)(1.6)

**EMERALD**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	1900 (6234)	1960 (6430) (1.5%)	1900 (6234)	1900 (6234)
RESA dimensions 90M X 60M commences from RWY end. Parallel fence 5.50FT ABV and 20M FM RWS end and 92M left and right of extended RCL has not been taken into account in the calculation of TODA GRAD and STODA.					
24	(3)	1900 (6234)	1960 (6430) (3.15%)	1900 (6234)	1900 (6234)
RESA dimensions 90M X 60M commences from RWY end. Parallel fence 7.80FT ABV and 35M FM RWS end and 92M left and right of extended RCL has not been taken into account in the calculation of TODA GRAD and STODA. Slope 0.2% down to NE. RWY WID 30 RWS WID 150 Graded 150					
15	(1)	618 (2028)	678 (2224) (2%)	618 (2028)	618 (2028)
33	(1)	618 (2028)	678 (2224) (2.5%)	618 (2028)	618 (2028)
Slope 0.4% down to NW. RWY WID 18 RWS WID 60					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY24- 1610(5282)(1.6) 1724(5656)(1.9) 1806(5925)(2.2) 1868(6129)(2.5)

**ESPERANCE**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(1)	1178 (3865)	1238 (4062) (3.4%)	1178 (3865)	1178 (3865)
Caution: SE end RWY 21 unlit OBST fence 4FT AGL and 90M SW of RWS CL has not been taken into account in the calculation of TODA gradient and STODA.					
21	(1)	1178 (3865)	1238 (4062) (2.44%)	1178 (3865)	1178 (3865)
Slope NE end 0.3% down to SW, SW end level. RWY WID 18 RWS WID 60					
11	(3)	1800 (5905)	1900 (6234) (3.62%)	1800 (5905)	1800 (5905)
29	(3)	1800 (5905)	1900 (6234) (1.2%)	1800 (5905)	1800 (5905)
Slope 0.6% down to W. RWY WID 30 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03- 869(2851)(2.2) 999(3278)(2.5) 1219(3999)(3.3)  
 RWY21- 1165(3822)(1.6) 1197(3927)(1.9) 1221(4006)(2.2)  
 RWY11- 1795(5889)(1.6) 1831(6007)(1.9) 1853(6079)(2.2) 1869(6132)(2.5) 1893(6211)(3.3)

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**FITZROY CROSSING**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(2)	1300 (4265)	1360 (4462) (1.22%)	1300 (4265)	1300 (4265)
19	(2)	1300 (4265)	1360 (4462) (2.09%)	1300 (4265)	1300 (4265)

RWY 01/19 APCH inner edge length 90M.

Slope N end 0.2% down to N. S end 0.2% down to S. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY19- 1287(4222)(1.6) 1335(4380)(1.9)

**FLINDERS ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1070 (3510)	1130 (3707) (2.34%)	1070 (3510)	1070 (3510)
23	(2)	1070 (3510)	1130 (3707) (1.74%)	1070 (3510)	1014 (3327)

Unlit OBST Fence 4.1FT ABV and 17M NE of RWS end, and transient OBST (road) 7.5FT ABV and 26M NE of RWS end are not included in the calculation of TODA GRAD and STODA.

RWY 23 DTHR 56 (184).

Slope 0.5% down to SW. RWY WID 30 RWS WID 90

14	(3)	1720 (5643)	1780 (5840) (5.5%)	1720 (5643)	1720 (5643)
32	(3)	1720 (5643)	1780 (5840) (3.72%)	1720 (5643)	1720 (5643)

Unlit OBST Fence 3.1FT ABV and at RWS end is not included in the calculation of TODA GRAD and STODA.

Unlit OBST Fence 2.5FT ABV and at RWS end is not included in the calculation of TODA GRAD and STODA.

Slope 0.1% from centre down to ends. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05- 942(3091)(2.2)  
 RWY23- 1127(3697)(1.6)  
 RWY14- 1710(5610)(3.3) 1770(5807)(5.0)  
 RWY32- 1337(4386)(3.3)

**FORBES**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	1228 (4029)	1288 (4226) (1.3%)	1228 (4029)	1228 (4029)
27	(1)	1228 (4029)	1288 (4226) (2.99%)	1228 (4029)	1228 (4029)

RESA dimensions 60M X 18M commences from RWY end.

RESA dimensions 60M X 18M commences from RWY end.

Unlit OBST fence 4FT ABV RWY and 63M off the eastern end of RWY 09 has not been taken into account in calculation of TODA GRAD and STODA.

Slope Level. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY27- 1275(4183)(1.6) 1279(4196)(1.9) 1283(4209)(2.2) 1285(4216)(2.5)

**FORREST**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	1349 (4426)	1409 (4623) (1.2%)	1349 (4426)	1349 (4426)
RESA dimensions 60M X 150M commences from RWY end.					
27	(3)	1349 (4426)	1409 (4623) (2.87%)	1349 (4426)	1349 (4426)
RESA dimensions 60M X 150M commences from RWY end.					
1. Unlit OBST. Levee bank 5FT ABV and 37M FM RWY 27 RWS end has not been taken into account in calculation of TODA GRAD & STODA.					
Slope 0.1% down to E. RWY WID 30 RWS WID 150 Graded 150					
18	(3)	1519 (4984)	1579 (5180) (2.85%)	1519 (4984)	1519 (4984)
RESA dimensions 60M X 150M commences from RWY end.					
36	(3)	1519 (4984)	1829 (6001) (1.2%)	1519 (4984)	1519 (4984)
RESA dimensions 310M X 150M commences from RWY end.					
RWY 18/36 transitional SFC may be infringed by ACFT parked on apron.					
Slope Level. RWY WID 45 RWS WID 150 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY27-	1255(4117)(1.6)	1301(4268)(1.9)	1335(4380)(2.2)	1360(4462)(2.5)
RWY18-	1318(4324)(1.6)	1412(4632)(1.9)	1480(4856)(2.2)	1532(5026)(2.5)

**FORRESTANIA**

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(3)	1530 (5020)	1590 (5216) (2.91%)	1530 (5020)	1530 (5020)
33	(3)	1530 (5020)	1590 (5216) (1.2%)	1530 (5020)	1530 (5020)
1. OBST fence 7FT AGL, 90M either side of CL 1590M FM SOT RWY 15 and RWY 33 not taken into account for survey data.					
2. TKOF survey inner edge 180M.					
3. RWY 15/33 APCH inner edge LEN 150M.					
Slope 0.1% down to SE. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY15-	1258(4127)(1.6)	1466(4810)(1.9)	1553(5095)(2.2)	1571(5154)(2.5)
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**FORTESCUE DAVE FORREST**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	2300 (7546)	2360 (7743) (2.15%)	2300 (7546)	2300 (7546)
RESA dimensions 90M X 60M commences from RWY end.					
30	(3)	2300 (7546)	2360 (7743) (2.11%)	2300 (7546)	2300 (7546)
RESA dimensions 90M X 60M commences from RWY end.					
APCH RWY inner edge 150M.					
Slope 700M NW end 0.3% down to SE, Centre 1,100M 1.2% down, SE 500M end level. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	2228(7310)(1.6)	2315(7595)(1.9)
RWY30-	2310(7579)(1.6)	2342(7684)(1.9)

**GARDEN POINT**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1315 (4314)	1375 (4511) (2.36%)	1315 (4314)	1315 (4314)
22	(2)	1315 (4314)	1375 (4511) (4.4%)	1315 (4314)	1315 (4314)

1. RWY 04/22 OBST surveys are conducted using 90M inner edge width.
2. RWY 04/22 E & W side transitional SFC infringed.  
Slope 0.7% down to SW. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	952(3123)(1.9)	1256(4121)(2.2)			
RWY22-	940(3084)(1.6)	1037(3402)(1.9)	1114(3655)(2.2)	1176(3858)(2.5)	1285(4216)(3.3)

**GAYNDAH**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	1265 (4150)	1325 (4347) (8.05%)	1265 (4150)	1265 (4150)
RESA dimensions 140M X 75M commences from RWY end.					
24	(2)	1265 (4150)	1325 (4347) (4.3%)	1265 (4150)	1265 (4150)
RESA dimensions 100M X 75M commences from RWY end.					

- Slope 0.3% down to NE. RWY WID 23 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	917(3008)(2.2)	1024(3360)(2.5)	1125(3691)(3.3)	1238(4062)(5.0)	
RWY24-	907(2976)(1.9)	1054(3458)(2.2)	1162(3812)(2.5)	1265(4150)(3.3)	

**GEORGETOWN (QLD)**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(1)	1158 (3799)	1218 (3996) (3.3%)	1158 (3799)	1158 (3799)
24	(1)	1158 (3799)	1218 (3996) (4.23%)	1158 (3799)	1158 (3799)

- Fence and trees, either side of RCL, infringe TNS by up to 10FT W end both sides.  
Slope down 1.25% FM SW end for 220M then rises 0.15% for 300M. Remaining 638M slopes down 0.7% to NE. RWY WID 18 RWS WID 90 Graded 80

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	926(3038)(1.6)	1040(3412)(1.9)	1087(3566)(2.2)	1126(3694)(2.5)	
RWY24-	874(2867)(2.2)	946(3104)(2.5)	1137(3730)(3.3)		

**GERALDTON**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(4)	2389 (7838)	2449 (8035) (1.67%)	2389 (7838)	2389 (7838)
RESA dimensions 240M X 90M commences from RWS end.					
21	(4)	2389 (7838)	2449 (8035) (1.72%)	2389 (7838)	2389 (7838)
RESA dimensions 240M X 90M commences from RWS end.					

- Slope 0.3% down to S. RWY WID 45 RWS WID 300 Graded 150

08	(1)	900 (2953)	960 (3150) (2.21%)	900 (2953)	900 (2953)
26	(1)	900 (2953)	960 (3150) (2.88%)	900 (2953)	900 (2953)

- Slope 0.3% down to W. RWY WID 18 RWS WID 90

14	(1)	844 (2769)	904 (2966) (1.2%)	844 (2769)	844 (2769)
32	(1)	844 (2769)	904 (2966) (4.97%)	844 (2769)	844 (2769)

- Slope 0.1% down to SE. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	2429(7969)(1.6)				
RWY21-	2326(7631)(1.6)				
RWY08-	949(3113)(2.2)				
RWY26-	825(2707)(2.2)	892(2926)(2.5)			
RWY32-	809(2654)(3.3)				

**GINBATA**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(4)	2500 (8202)	2560 (8399) (1.35%)	2500 (8202)	2500 (8202)
RESA dimensions 60M X 90M commences from RWY end.					
27	(4)	2500 (8202)	2560 (8399) (1.2%)	2500 (8202)	2500 (8202)
RESA dimensions 60M X 90M commences from RWY end.					
Slope 0.04% down to E. RWY WID 45 RWS WID 300 Graded 150					

**GINGIN**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(MIL)	1828 (5997)	1988 (6522) (0%)	1828 (5997)	1828 (5997)
26	(MIL)	1828 (5997)	2133 (6998) (0%)	1828 (5997)	1828 (5997)
1. RWY08 and RWY26 No APCH or TKOF gradients have been considered.					
2. RWY 08 and RWY 26 TODA gradients not provided due obstruction in the CWY.					
3. RWY SFC composition sealed.					
4. TKOF/CLIMB SFC inner edge WID 180M.					
Slope 0.06% down to E. RWY WID 45 RWS WID 230					

**SUPPLEMENTARY TAKEOFF DISTANCES**

**ARRESTOR BARRIER ERECTED (Net Poles 21FT AGL)**

RWY 08	1524(5000)(1.6%)	1578(5177)(1.9%)	1592(5223)(2.0%)	1618(5308)(2.2%)
	1648(5406)(2.5%)	1703(5587)(3.3%)	1762(5780)(5.0%)	
RWY 26	1486(4875)(1.6%)	1549(5082)(1.9%)	1566(5137)(2.0%)	1595(5232)(2.2%)
	1630(5347)(2.5%)	1690(5544)(3.3%)	1754(5754)(5.0%)	

**ARRESTOR BARRIER RETRACTED (Net Poles 5FT)**

RWY 08	1814(5951)(1.6%)	1827(5994)(1.9%)	1829(6000)(2.0%)	1833(6013)(2.2%)
	1839(6033)(2.5%)	1848(6062)(3.3%)	1858(6095)(5.0%)	
RWY 26	1731(5679)(1.6%)	1815(5954)(1.9%)	1818(5964)(2.0%)	1823(5980)(2.2%)
	1830(6003)(2.5%)	1841(6040)(3.3%)	1853(6079)(5.0%)	

**GLADSTONE**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1885 (6184)	1945 (6381) (4.5%)	1885 (6184)	1780 (5840)
RESA dimensions 90M X 60M commences from RWY end.					
1. RWY 10 DTHR 60M.					
2. Reduce TORA, TODA, ASDA and STODA by 45M HN.					
3. Caution: Fence 2.3FT ABV and at RWS end, and Transient OBST up to 8.3FT ABV and at RWS end are not taken into account in determining TODA GRAD and STODA.					
28	(3)	1920 (6299)	1980 (6496) (5.75%)	1920 (6299)	1720 (5643)
RESA dimensions 90M X 60M commences from RWY end.					
1. RWY 28 DTHR 120M.					
2. Reduce TORA, TODA, ASDA and STODA by 80M HN.					
3. Physical distance BTN RWY 10/28 ends is 1965M.					
4. OBST lights (group of LGT towers on coal loading gantry 250M long) 214FT AMSL PSN BRG 334 MAG 4,300M FM ARP. Infringes inner HZS by 15FT.					
5. Caution: Unlit OBST has not been taken into account in calculation of TODA GRAD and STODA.					

Slope 0.34% down to E. RWY WID 30 RWS WID 150 Graded 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10- 1110(3642)(1.9) 1380(4528)(2.2) 1588(5210)(2.5) 1873(6145)(3.3)  
 RWY28- 806(2644)(2.5) 1898(6227)(3.3) 1973(6473)(5.0)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY10- TKOF from TWY A1; RWY remaining 1349(4426) reduce all DIST by 536(1759)  
 RWY10- TKOF from TWY A4; RWY remaining 989(3245) reduce all DIST by 896(2940)  
 RWY28- TKOF from TWY A4; RWY remaining 869(2851) reduce all DIST by 1051(3448)  
 RWY28- TKOF from TWY A5; RWY remaining 1009(3310) reduce all DIST by 911(2989)

**GLEN INNES**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(2)	1200 (3937)	1260 (4134) (1.83%)	1200 (3937)	1200 (3937)
RESA dimensions 60M X 60M commences from RWY end.					
28	(2)	1200 (3937)	1260 (4134) (1.67%)	1200 (3937)	1200 (3937)
RESA dimensions 60M X 60M commences from RWY end.					
Slope 0.2% down to W. RWY WID 30 RWS WID 90					
14	(3)	1498 (4915)	1558 (5111) (2.53%)	1498 (4915)	1498 (4915)
RESA dimensions 60M X 60M commences from RWY end.					
Fence 2.5FT ABV and PARL to RWY, 91M NE of RCL and fence 6.7FT ABV and PARL to RWY, 91M SW of RCL not taken into account in the calculation of TODA GRAD and STODA.					
32	(3)	1498 (4915)	1558 (5111) (2.7%)	1498 (4915)	1498 (4915)
RESA dimensions 60M X 60M commences from RWY end.					
1. Transition SFC for RWY 10/28 and RWY 14/32 infringed by trees.					
2. Fence 2.9FT ABV and PARL to RWY, 91M NE of RCL and fence 0.9FT ABV and PARL to RWY, 91M SW of RCL not taken into account in the calculation of TODA GRAD and STODA.					
3. APCH SFC slopes assessed on 3.33%.					
4. APCH SFC WID assessed on 150M inner edge.					
Slope 0.5% from N down to centre. 0.4% from S down to centre. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10- 947(3107)(1.6)  
 RWY28- 1224(4016)(1.6)  
 RWY14- 1209(3966)(2.2) 1548(5079)(2.5)  
 RWY32- 1170(3839)(1.6) 1319(4327)(1.9) 1428(4685)(2.2) 1512(4961)(2.5)

**GNOWANGERUP**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(2)	1499 (4918)	1559 (5115) (2.92%)	1499 (4918)	1499 (4918)
RESA dimensions 60M X 60M commences from RWY end.					
30	(2)	1499 (4918)	1559 (5115) (4.81%)	1499 (4918)	1499 (4918)
RESA dimensions 60M X 60M commences from RWY end.					
Transitional SFC infringed by trees on north side.					
Slope 1% down to SE. RWY WID 30 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12- 1435(4708)(1.6) 1466(4810)(1.9) 1491(4892)(2.2) 1522(4993)(2.5)  
 RWY30- 867(2844)(1.6) 1176(3858)(1.9) 1347(4419)(2.2) 1457(4780)(2.5) 1543(5062)(3.3)

**GOLD COAST**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
14	(4)	2342 (7684)	2402 (7880) (3.85%)	2342 (7684)	2342 (7684)
1. Note: Fence 2FT ABV and 2M S of RWS end is not taken into account in the calculation of TODA GRAD and STODA.					
2. RWY 14 RWS 300 - OPR restriction: TKOF RWS 150.					
32	(4)	2492 (8176)	2552 (8373) (3.34%)	2492 (8176)	2042 (6699)
RWY 32 DTHR permanently 300M.					
Slope 0.1% down to SE. RWY WID 45 RWS WID 300					
17	(1)	582 (1909)	642 (2106) (4.51%)	582 (1909)	582 (1909)
35	(1)	582 (1909)	612 (2008) (4.14%)	582 (1909)	582 (1909)
Slope 0.2% down to S. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14- 1757(5764)(1.6) 1935(6348)(1.9) 2058(6752)(2.2) 2153(7064)(2.5) 2325(7628)(3.3)  
 RWY32- 1461(4793)(2.2) 1979(6493)(2.5) 2546(8353)(3.3)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY14- TKOF from TWY B; RWY remaining 1435(4708) reduce all DIST by 907(2976)  
 RWY14- TKOF from TWY H; RWY remaining 1737(5699) reduce all DIST by 605(1985)  
 RWY32- TKOF from TWY D; RWY remaining 1685(5528) reduce all DIST by 807(2648)  
 RWY32- TKOF from TWY F; RWY remaining 1575(5167) reduce all DIST by 917(3008)  
 RWY32- TKOF from TWY K; RWY remaining 2342(7684) reduce all DIST by 150(492)

**GOLDEN GROVE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
11	(2)	1396 (4580)	1456 (4777) (2.3%)	1396 (4580)	1396 (4580)
RESA dimensions 60M X 60M commences from RWS end.					
29	(2)	1396 (4580)	1456 (4777) (1.4%)	1396 (4580)	1396 (4580)
RESA dimensions 60M X 60M commences from RWS end.					
RWY 11/29 APCH inner edge length 90M. TKOF splay baseline 90M.					
Slope 0.5% down to E. RWY WID 30 RWS WID 90 Graded 80					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11- 1310(4298)(1.6) 1382(4534)(1.9) 1438(4718)(2.2)

**GOODOOGA**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
12	(1)	1016 (3333)	1076 (3530) (3.99%)	1016 (3333)	1016 (3333)
30	(1)	1016 (3333)	1076 (3530) (1.76%)	1016 (3333)	1016 (3333)
Slope LEVEL. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12- 816(2677)(2.2) 885(2904)(2.5) 1013(3323)(3.3)  
 RWY30- 1068(3504)(1.6)

**GOONDIWINDI**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1340 (4396)	1400 (4593) (3.09%)	1340 (4396)	1340 (4396)
RESA dimensions 60M X 90M commences from RWY end.					
22	(2)	1340 (4396)	1400 (4593) (2.7%)	1340 (4396)	1340 (4396)
RESA dimensions 60M X 90M commences from RWY end.					
Slope 0.1% down to NE. RWY WID 30 RWS WID 90 Graded 90					
12	(1)	795 (2608)	855 (2805) (4.95%)	795 (2608)	795 (2608)
30	(1)	795 (2608)	855 (2805) (1.6%)	795 (2608)	795 (2608)
Slope 0.1% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1029(3376)(1.6)	1150(3773)(1.9)	1239(4065)(2.2)	1306(4285)(2.5)
RWY22-	1032(3386)(1.6)	1178(3865)(1.9)	1281(4203)(2.2)	1359(4459)(2.5)

**GOULBURN**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1281 (4203)	1342 (4403) (7.17%)	1281 (4203)	1281 (4203)
RESA dimensions 61M X 90M commences from RWY end.					
22	(3)	1281 (4203)	1342 (4403) (2.41%)	1281 (4203)	1281 (4203)
RESA dimensions 61M X 90M commences from RWY end.					
Fences 6.6FT ABV RWS end and PARL to RWY 22, 91.4M N and S of RCL not taken into account in calculation of TODA GRAD and STODA.					
Slope 1.2% down to NE. RWY WID 30 RWS WID 90 Graded 90					
08	(1)	679 (2228)	739 (2425) (3.89%)	679 (2228)	679 (2228)
RESA dimensions 60M X 75M commences from RWY end.					
26	(1)	679 (2228)	739 (2425) (3.1%)	679 (2228)	679 (2228)
RESA dimensions 60M X 75M commences from RWY end.					
Slope 0.9% down to E. RWY WID 30 RWS WID 70					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1009(3310)(1.9)	1165(3822)(2.2)	1277(4190)(2.5)	1300(4265)(3.3)	1327(4354)(5.0)
RWY22-	1017(3337)(2.2)				

**GOVE**

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(4)	2208 (7244)	2268 (7441) (1.92%)	2208 (7244)	2208 (7244)
RESA dimensions 60M X 45M commences from RWY end.					
31	(4)	2208 (7244)	2268 (7441) (2.11%)	2208 (7244)	2208 (7244)
RESA dimensions 60M X 45M commences from RWY end.					
Length of approach inner edge 150M.					
Slope FM NW end 0.4% down to TWY E, FM TWY E level to SE end. RWY WID 45 RWS WID 150 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY13-	2240(7349)(1.6)	2267(7438)(1.9)		
RWY31-	1986(6516)(1.6)	2180(7152)(1.9)		

**GRAFTON**

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	1709 (5607)	1769 (5804) (5.86%)	1709 (5607)	1709 (5607)

RESA dimensions 60M X 90M commences from RWY end.

S end unlit OBST bank 2FT ABV and 56M E of RWS CL has not been taken into account in the calculation of TODA GRAD and STODA

36	(3)	1709 (5607)	1769 (5804) (1.2%)	1709 (5607)	1709 (5607)
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RESA dimensions 60M X 90M commences from RWY end.

Turns only at THR and turning nodes.

Slope 0.8% down to N. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	993(3258)(1.9)	1206(3957)(2.2)	1343(4406)(2.5)	1548(5079)(3.3)	1725(5659)(5.0)
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**GRIFFITH**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	1704 (5590)	1795 (5889) (3.7%)	1704 (5590)	1704 (5590)
24	(3)	1704 (5590)	1764 (5787) (2.86%)	1704 (5590)	1704 (5590)

Turning nodes each end 45M WID.

Slope 0.3% down to SW. RWY WID 30 RWS WID 150 Graded 90

18	(1)	600 (1968)	660 (2165) (5.14%)	600 (1968)	600 (1968)
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36	(1)	600 (1968)	660 (2165) (2.12%)	600 (1968)	600 (1968)
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Slope 0.2% down to S. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	931(3054)(1.9)	1194(3917)(2.2)	1471(4826)(2.5)	1778(5833)(3.3)
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RWY24-	808(2651)(1.6)	1160(3806)(1.9)	1394(4573)(2.2)	1583(5194)(2.5)
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**GROOTE EYLANDT**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1903 (6243)	1961 (6434) (3.05%)	1903 (6243)	1903 (6243)

RESA dimensions 90M X 90M commences from RWS end.

28	(3)	1903 (6243)	1961 (6434) (2.26%)	1903 (6243)	1903 (6243)
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RESA dimensions 90M X 90M commences from RWS end.

RWY 10/28 transitional SFC infringed up to 24FT by trees APRX 150M N and S of RWY CL.

Slope 0.3% down to W. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	882(2894)(1.9)	1616(5302)(2.2)	1773(5817)(2.5)
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RWY28-	1645(5397)(1.6)	1809(5935)(1.9)	1939(6361)(2.2)
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**GRUYERE**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	2100 (6890)	2160 (7087) (2.97%)	2100 (6890)	2100 (6890)
24	(3)	2100 (6890)	2160 (7087) (2.6%)	2100 (6890)	2100 (6890)

RWY 06/24 survey area APCH inner edge length 150M.

Slope 0.05% down to the NE. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1929(6329)(1.6)	2008(6588)(1.9)	2064(6772)(2.2)	2107(6913)(2.5)
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RWY24-	1975(6480)(1.6)	2053(6735)(1.9)	2110(6922)(2.2)	2153(7064)(2.5)
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**GUDDAI-DARRI MINE**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(4)	2200 (7218)	2260 (7415) (1.2%)	2200 (7218)	2200 (7218)
RESA dimensions 90M X 90M commences from RWS end.					
30	(4)	2200 (7218)	2260 (7415) (1.26%)	2200 (7218)	2200 (7218)
RESA dimensions 90M X 90M commences from RWS end.					
Slope 0.24% down to the E. RWY WID 45 RWS WID 300 Graded 150					

**GUNNEDAH**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1646 (5400)	1706 (5597) (3.6%)	1646 (5400)	1646 (5400)
RESA dimensions 90M X 100M commences from RWY end.					
Transient OBST up to 15.7FT ABV and 75M E of RWS end is not taken into account in calculating TODA GRAD and STODA.					
29	(3)	1646 (5400)	1706 (5597) (2.3%)	1646 (5400)	1646 (5400)
RESA dimensions 90M X 100M commences from RWY end.					
Slope 0.1% down to W. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11- 1130(3707)(1.6) 1393(4570)(1.9) 1492(4895)(2.2) 1557(5108)(2.5) 1676(5499)(3.3)  
 RWY29- 1384(4541)(1.6) 1549(5082)(1.9) 1667(5469)(2.2)

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**HALLS CREEK**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1475 (4839)	1535 (5036) (1.86%)	1475 (4839)	1475 (4839)
RESA dimensions 60M X 60M commences from RWS end.					
22	(3)	1475 (4839)	1535 (5036) (2.64%)	1475 (4839)	1475 (4839)
RESA dimensions 60M X 60M commences from RWS end.					
RWY 04/22 APCH inner edge width 150M.					
Slope 0.2% down to NE. RWY WID 30 RWS WID 90					
08	(1)	946 (3104)	976 (3202) (3.83%)	946 (3104)	946 (3104)
RWY 08 fence 1,046M FM SOT and 4FT ABV RWY end.					
26	(1)	946 (3104)	976 (3202) (4.07%)	946 (3104)	946 (3104)
RWY 26 fence 1,066M FM SOT and 10FT ABV RWY end.					
Slope 0.8% down to E. RWY WID 18 RWS WID 60					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1429(4688)(1.6)
RWY22-	1189(3901)(1.6) 1338(4390)(1.9) 1434(4705)(2.2) 1506(4941)(2.5)
RWY08-	838(2749)(1.6) 869(2851)(1.9) 895(2936)(2.2) 916(3005)(2.5) 956(3136)(3.3)
RWY26-	886(2907)(3.3)

**HAMILTON**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1233 (4045)	1293 (4242) (3%)	1233 (4045)	1233 (4045)
28	(3)	1233 (4045)	1293 (4242) (2.54%)	1233 (4045)	1233 (4045)
Slope 0.6% down to E, 0.8 down to W. RWY WID 30 RWS WID 90					
17	(3)	1664 (5459)	1724 (5656) (1.8%)	1664 (5459)	1664 (5459)
RESA dimensions 90M X 60M commences from RWS end.					
Unlit OBST fence, 2FT ABV, PARL and 90M W of RCL not taken into account in calculation of TODA GRAD and STODA.					
35	(3)	1664 (5459)	1724 (5656) (2.62%)	1664 (5459)	1664 (5459)
RESA dimensions 90M X 60M commences from RWS end.					
Slope 0.5% down to N. RWY WID 30 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	1156(3793)(1.6) 1200(3937)(1.9) 1229(4032)(2.2) 1259(4131)(2.5)
RWY28-	1013(3323)(1.6) 1123(3684)(1.9) 1204(3950)(2.2) 1283(4209)(2.5)
RWY17-	1475(4839)(1.6)
RWY35-	1379(4524)(1.6) 1497(4911)(1.9) 1597(5239)(2.2) 1687(5535)(2.5)

**HAMILTON ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	1766 (5794)	1841 (6040) (1.69%)	1766 (5794)	1706 (5597)
RESA dimensions 90M X 45M commences from RWY end.					
1. Transient yacht masts may infringe RWY 14 APCH SFC clearance - Caution RQ.					
2. TKOF run commences at end of turning node.					
32	(3)	1766 (5794)	1826 (5991) (2.02%)	1766 (5794)	1706 (5597)
RESA dimensions 90M X 45M commences from RWY end.					
1. OBST fence 7FT AGL located up to 76M from RCL SW side for first 500M from RWY 32 SOT. Infringes 14.3% TNS by up to 2FT.					
2. RWS WID 90(295) for ACFT BLW 22,700KG MTOW by day in VMC. Marked by white cones.					
3. TKOF run commences at end of turning node.					
Slope Level. RWY WID 45 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14-	1786(5860)(1.6)
RWY32-	899(2949)(1.6) 1609(5279)(1.9)

**HAY**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1463 (4800)	1523 (4997) (3.05%)	1463 (4800)	1463 (4800)
CAUTION: Transient OBST up to 15.3FT ABV and 48M NE of RWS, levee bank 3.4FT ABV and at RWS end, and fence 4FT ABV and 6M NE of RWS end are not taken into account in determining TODA GRAD and STODA.					
22	(3)	1463 (4800)	1523 (4997) (2.76%)	1463 (4800)	1463 (4800)
1. OBST Fence 6FT ABV and at RWS end and PARL to RWY 72M W of RCL, are not taken into account in calculating TODA GRAD and STODA.					
2. Transient OBST not accounted for in locating THR RWY 22.					
Slope Level. RWY WID 30 RWS WID 90 Graded 90					
15	(2)	1140 (3740)	1200 (3937) (1.57%)	1140 (3740)	1140 (3740)
33	(2)	1140 (3740)	1200 (3937) (4.07%)	1140 (3740)	1140 (3740)
Slope Level. RWY WID 30 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	845(2772)(1.6)	1190(3904)(1.9)	1428(4685)(2.2)	1471(4826)(2.5)
RWY22-	1334(4377)(1.6)	1405(4610)(1.9)	1456(4777)(2.2)	1496(4908)(2.5)
RWY33-	830(2723)(2.2)	925(3035)(2.5)	1107(3632)(3.3)	

**HERVEY BAY**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	2000 (6562)	2060 (6758) (4.9%)	2000 (6562)	2000 (6562)
RESA dimensions 150M X 60M commences from RWS end.					
29	(3)	2000 (6562)	2060 (6758) (2.85%)	2000 (6562)	2000 (6562)
RESA dimensions 150M X 60M commences from RWS end.					
Slope W end up to 0.47% to 350M (Highest point), then down 0.40% to 520M, then down 0.74% to centre. E end down 0.27% to centre. RWY WID 30 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1329(4360)(1.6)	1523(4997)(1.9)	1657(5436)(2.2)	1755(5758)(2.5)	1921(6302)(3.3)
RWY29-	1282(4206)(1.9)	1694(5558)(2.2)	1885(6184)(2.5)		

**HOBART**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(4)	2727 (8947)	2787 (9144) (3.19%)	2727 (8947)	2608 (8556)
RESA dimensions 90M X 90M commences from RWS end.					
RWY 12 DTHR 119M.					
30	(4)	2727 (8947)	2787 (9144) (2.29%)	2727 (8947)	2727 (8947)
RESA dimensions 90M X 90M commences from RWS end.					
1. Transition SFC infringed by trees.					
2. APCH lights up to 1.8FT high WI CWY.					
3. APCH lights BTN 3M and 270M FM CWY end and FM 3FT to 17FT ABV CWY end are not taken into account in calculation of TODA GRAD and STODA.					
Slope Level. RWY WID 45 RWS WID 300 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	2664(8740)(1.6)	2709(8888)(1.9)	2742(8996)(2.2)	2766(9075)(2.5)
RWY30-	2691(8829)(1.9)	2768(9081)(2.2)		

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY12-	TKOF from TWY C;	RWY remaining 2036(6680)	reduce all DIST by 691(2267)
RWY12-	TKOF from TWY D;	RWY remaining 1290(4232)	reduce all DIST by 1437(4715)
RWY30-	TKOF from TWY D;	RWY remaining 1460(4790)	reduce all DIST by 1267(4157)

**HOPETOUN**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(1)	1110 (3642)	1170 (3839) (2.79%)	1110 (3642)	1110 (3642)
RESA dimensions 90M X 90M commences from RWY end.					
19	(1)	1110 (3642)	1197 (3927) (3.38%)	1110 (3642)	1110 (3642)
RESA dimensions 60M X 90M commences from RWY end.					
Fence 3FT ABV and 37M S of RWS end, and transient OBST up to 15FT ABV and 45M S of RWS end are not taken into account in calculating TODA GRAD and STODA.					
Slope Level. RWY WID 18 RWS WID 90					
08	(1)	487 (1598)	547 (1795) (3.66%)	487 (1598)	487 (1598)
RESA dimensions 60M X 90M commences from RWY end.					
26	(1)	487 (1598)	547 (1795) (1.38%)	487 (1598)	487 (1598)
RESA dimensions 60M X 90M commences from RWY end.					
Fence 3.7FT ABV and 37M W of RWS end, and transient OBST up to 16.2FT ABV and 45M W of RWS end are not taken into account in calculating TODA GRAD and STODA.					
Slope Level. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01- 980(3215)(1.6) 1045(3428)(1.9) 1095(3592)(2.2) 1137(3730)(2.5)  
 RWY19- 835(2739)(1.6) 950(3117)(1.9) 1030(3379)(2.2) 1086(3563)(2.5) 1191(3907)(3.3)

**HORN ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	1389 (4557)	1449 (4754) (3.3%)	1389 (4557)	1389 (4557)
26	(3)	1389 (4557)	1465 (4806) (1.78%)	1389 (4557)	1389 (4557)
1. TKOF and APCH inner edge length 150M.					
2. OBST trees 110M both left and right of RWY 08/26 CL infringe transitional SFC by up to 20FT.					
3. Fence 105M FM RWS, 80M S of RCL 17FT ABV CWY not taken into account in TODA gradient or STODA.					
Slope 0.2% down to W. RWY WID 30 RWS WID 150 Graded 90					
14	(2)	0 (0)	0 (0)	0 (0)	1235 (4052)
32	(2)	1235 (4052)	1295 (4249) (2.31%)	1235 (4052)	0 (0)
1. Due to terrain, TKOF RWY 14 and LDG RWY 32 not AVBL.					
2. RWY 14 APCH inner edge length 90M.					
Slope 0.9% down to NW. RWY WID 23 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08- 814(2671)(2.2) 1046(3432)(2.5)  
 RWY26- 1379(4524)(1.6)  
 RWY32- 1201(3940)(1.6) 1248(4094)(1.9) 1284(4213)(2.2)

**HORSHAM**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	1322 (4337)	1382 (4534) (1.2%)	1322 (4337)	1322 (4337)
26	(3)	1322 (4337)	1382 (4534) (3.76%)	1322 (4337)	1322 (4337)
RWY 08/26 Fixed distance/touchdown markings not AVBL.					
Slope 0.1% down to W. RWY WID 30 RWS WID 90					
17	(2)	999 (3278)	1059 (3474) (1.2%)	999 (3278)	999 (3278)
RWY 17 THR displaced 98(322).					
35	(2)	999 (3278)	1157 (3796) (1.2%)	999 (3278)	999 (3278)
Slope 0.1% down to N. RWY WID 24 RWS WID 80					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY26- 1225(4019)(1.6) 1267(4157)(1.9) 1298(4258)(2.2) 1322(4337)(2.5) 1367(4485)(3.3)

**HUGHENDEN**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
06	(1)	1307 (4288)	1367 (4485) (2.45%)	1307 (4288)	1307 (4288)
		RESA dimensions 90M X 60M commences from RWS end.			
24	(1)	1307 (4288)	1367 (4485) (3.75%)	1307 (4288)	1307 (4288)
		RESA dimensions 90M X 60M commences from RWS end.			
		Slope 0.1% down to SW. RWY WID 18 RWS WID 60			
12	(3)	1644 (5394)	1704 (5590) (3.2%)	1644 (5394)	1644 (5394)
		RESA dimensions 90M X 60M commences from RWS end.			
30	(3)	1644 (5394)	1704 (5590) (1.54%)	1644 (5394)	1644 (5394)
		RESA dimensions 90M X 60M commences from RWS end.			
		Slope 0.2% down to NW. RWY WID 30 RWS WID 150 Graded 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1164(3819)(1.6)	1258(4127)(1.9)	1325(4347)(2.2)		
RWY24-	801(2628)(1.6)	954(3130)(1.9)	1067(3501)(2.2)	1153(3783)(2.5)	1312(4304)(3.3)
RWY12-	1233(4045)(1.6)	1411(4629)(1.9)	1536(5039)(2.2)	1622(5321)(2.5)	

**INNISFAIL/MUNDOO**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(1)	1204 (3950)	1264 (4147) (2.82%)	1204 (3950)	1204 (3950)
RESA dimensions 90M X 60M commences from RWY end.					
21	(1)	1204 (3950)	1264 (4147) (4.96%)	1204 (3950)	1204 (3950)
RESA dimensions 90M X 60M commences from RWY end.					
Slope 0.3% down to NE. RWY WID 30 RWS WID 90					
14	(2)	1353 (4439)	1413 (4636) (1.6%)	1353 (4439)	1353 (4439)
RESA dimensions 90M X 60M commences from RWY end.					
32	(2)	1353 (4439)	1413 (4636) (3.09%)	1353 (4439)	1353 (4439)
RESA dimensions 80M X 60M commences from RWY end.					
RWY 14/32 unlit OBST seasonal crop 90M N of RWY 14 8FT ABV CWY not taken into account in calculation of TODA or STODA.					
Slope 0.2% down to SE. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	1251(4104)(1.6)	1263(4144)(1.9)			
RWY21-	1009(3310)(3.3)				
RWY32-	1214(3983)(1.6)	1283(4209)(1.9)	1332(4370)(2.2)	1367(4485)(2.5)	

**INVERELL**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	700 (2297)	730 (2395) (4.5%)	700 (2297)	700 (2297)
22	(1)	700 (2297)	730 (2395) (5.06%)	700 (2297)	700 (2297)
Slope 1.2% down to SW. RWY WID 18 RWS WID 60 Graded 60					
16	(3)	2114 (6936)	2174 (7132) (3.66%)	2114 (6936)	2114 (6936)
34	(3)	2114 (6936)	2174 (7132) (3.73%)	2114 (6936)	2114 (6936)
1. TODA end GRAD and STODA based on 180M TKOF inner edge width with 12.5% diversion splays.					
2. APCH GRAD to THR 16 at N end is 3.30% and to THR 34 at S end is 3.0% for 150M APCH inner edge width with 15% diversion splays.					
Slope Average 1.0% down to N and FM THR 34 down 0.64% for first 1329M and then down 1.55% to THR 16. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY16-	1348(4423)(1.6)	1722(5650)(1.9)	1898(6227)(2.2)	2001(6565)(2.5)	2135(7005)(3.3)
RWY34-	1884(6181)(1.6)	1958(6424)(1.9)	2018(6621)(2.2)	2068(6785)(2.5)	2158(7080)(3.3)

**IRON BRIDGE MINE**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	2500 (8202)	2560 (8399) (1.75%)	2500 (8202)	2500 (8202)
30	(3)	2500 (8202)	2560 (8399) (1.59%)	2500 (8202)	2500 (8202)
Slope 0.28% down to NW. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	2533(8310)(1.6)				
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**IVANHOE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
09	(2)	1019 (3343)	1079 (3540) (3.21%)	1019 (3343)	1019 (3343)
27	(2)	1019 (3343)	1079 (3540) (3.9%)	1019 (3343)	1019 (3343)
Slope 0.34% down to E. RWY WID 30 RWS WID 90 Graded 90					
16	(1)	1245 (4085)	1305 (4281) (3.97%)	1245 (4085)	1245 (4085)
34	(1)	1245 (4085)	1305 (4281) (1.2%)	1245 (4085)	1245 (4085)
Slope 0.6% down to N. RWY WID 18 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	1008(3307)(1.6)	1026(3366)(1.9)	1044(3425)(2.2)	1057(3468)(2.5)	
RWY27-	868(2848)(1.6)	925(3035)(1.9)	959(3146)(2.2)	986(3235)(2.5)	1049(3442)(3.3)
RWY16-	1152(3779)(1.6)	1188(3898)(1.9)	1215(3986)(2.2)	1238(4062)(2.5)	1287(4222)(3.3)



**JABIRU**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
09	(2)	1402 (4600)	1482 (4862) (3.8%)	1402 (4600)	1402 (4600)
		RESA dimensions 80M X 46M commences from RWY end.			
27	(2)	1402 (4600)	1482 (4862) (2.05%)	1402 (4600)	1402 (4600)
		RESA dimensions 80M X 46M commences from RWY end.			
		1. RWS 09/27 gable markers 80M.			
		2. RWY 09/27: CWY LEN x WID 80M x 90M.			
		Slope 630M W end 0.8% down to W, 772M E end 1.0% down to E. RWY WID 23 RWS WID 90 Graded 80			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09- 1341(4400)(1.6) 1368(4488)(1.9) 1388(4554)(2.2) 1404(4606)(2.5) 1463(4800)(3.3)  
 RWY27- 1370(4495)(1.6) 1447(4747)(1.9)

**JACINTH AMBROSIA**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
14	(3)	1800 (5905)	1860 (6102) (3.01%)	1800 (5905)	1800 (5905)
		RESA dimensions 90M X 60M commences from RWS end.			
32	(3)	1800 (5905)	1860 (6102) (2.16%)	1800 (5905)	1800 (5905)
		RESA dimensions 90M X 60M commences from RWS end.			
		TKOF GRAD RWY 14/32 based on 90M inner edge WID.			
		Slope West End 150M 0.82% down to E; East End 1.5% down to W. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14- 1296(4252)(2.2) 1636(5367)(2.5)  
 RWY32- 1784(5853)(1.6) 1833(6014)(1.9)

**JULIA CREEK**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
10	(3)	1402 (4600)	1462 (4797) (1.2%)	1402 (4600)	1402 (4600)
28	(3)	1402 (4600)	1462 (4797) (1.2%)	1402 (4600)	1402 (4600)
		Slope Level. RWY WID 30 RWS WID 150 Graded 90			

**JUNDEE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
08	(3)	2095 (6873)	2155 (7070) (1.41%)	2095 (6873)	2095 (6873)
		RESA dimensions 90M X 60M commences from RWS end.			
26	(3)	2095 (6873)	2155 (7070) (2.07%)	2095 (6873)	2095 (6873)
		RESA dimensions 90M X 60M commences from RWS end.			
		1. RWY 08 and 26 TKOF SFC infringed by fence 5FT, offset APRX 70M FM CL each side.			
		2. RWY 08/26 APCH inner edge length 150M.			
		Slope 0.09% down to E. RWY WID 30 RWS WID 150 Graded 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY26- 2079(6821)(1.6) 2131(6991)(1.9)

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**KALBARRI**

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	1600 (5249)	1660 (5446) (2.59%)	1600 (5249)	1600 (5249)
RESA dimensions 120M X 60M commences from RWY end.					
36	(3)	1600 (5249)	1660 (5446) (2.31%)	1600 (5249)	1600 (5249)
RESA dimensions 90M X 60M commences from RWY end.					
RWY 18/36 APCH and TKOF inner edge length 90M.					
Slope 0.27% Down to N. RWY WID 30 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	1562(5125)(1.6)	1602(5256)(1.9)	1631(5351)(2.2)	1654(5426)(2.5)
RWY36-	1628(5341)(1.6)	1651(5417)(1.9)	1658(5440)(2.2)	

**KALGOORLIE-BOULDER**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(4)	2000 (6562)	2060 (6758) (2.07%)	2000 (6562)	2000 (6562)
29	(4)	2000 (6562)	2060 (6758) (1.89%)	2000 (6562)	2000 (6562)
RESA commences FM end of RWY 11 and RWY 29.					
Slope 0.8% down to E. RWY WID 45 RWS WID 300 Graded 150					
18	(1)	1200 (3937)	1260 (4134) (3.59%)	1200 (3937)	1200 (3937)
36	(1)	1200 (3937)	1260 (4134) (1.94%)	1200 (3937)	1200 (3937)
Slope 0.5% down to N. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1990(6529)(1.6)	2037(6683)(1.9)		
RWY29-	1687(5535)(1.6)			
RWY18-	857(2812)(1.9)	987(3238)(2.2)	1077(3533)(2.5)	1224(4016)(3.3)
RWY36-	1192(3911)(1.6)	1252(4108)(1.9)		

**KALKGURUNG**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(2)	1250 (4101)	1310 (4298) (1.69%)	1250 (4101)	1250 (4101)
21	(2)	1250 (4101)	1310 (4298) (1.2%)	1250 (4101)	1250 (4101)
Slope 0.8% down to NE. RWY WID 18 RWS WID 90					
13	(1)	956 (3136)	986 (3235) (1.46%)	956 (3136)	956 (3136)
31	(1)	956 (3136)	986 (3235) (1.2%)	956 (3136)	956 (3136)
Slope 1.1 down to SE. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	1301(4268)(1.6)
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**KAMBALDA**

RWY	(CN)	TORA	TODA	ASDA	LDA
16	(3)	1800 (5905)	1860 (6102) (5.3%)	1800 (5905)	1800 (5905)
RESA dimensions 60M X 60M commences from RWS end.					
34	(3)	1800 (5905)	1860 (6102) (3.21%)	1800 (5905)	1800 (5905)
RESA dimensions 60M X 60M commences from RWS end.					
Slope 0.28% down to SE. RWY WID 30 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY16-	1451(4760)(1.6)	1538(5046)(1.9)	1605(5266)(2.2)	1657(5436)(2.5)	1753(5751)(3.3)
	1850(6069)(5.0)				
RWY34-	1259(4131)(1.6)	1494(4902)(1.9)	1630(5348)(2.2)	1724(5656)(2.5)	

**KARARA**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1400 (4593)	1460 (4790) (3.62%)	1400 (4593)	1400 (4593)
		RESA dimensions 90M X 60M commences from RWS end.			
30	(3)	1400 (4593)	1460 (4790) (3.54%)	1400 (4593)	1400 (4593)
		RESA dimensions 90M X 60M commences from RWS end.			
		1. OBST fence 5FT AGL adjacent RWY 12/30 offset APRX 70M FM CL each side. Infringes TKOF SFC.			
		2. RWY 12/30 APCH inner edge length 150M.			
		Slope 0.16% down to NW. RWY WID 30 RWS WID 150 Graded 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	1119(3671)(1.6)	1287(4222)(1.9)	1384(4541)(2.2)	1408(4619)(2.5)	1448(4751)(3.3)
RWY30-	1147(3763)(1.6)	1234(4049)(1.9)	1298(4258)(2.2)	1348(4423)(2.5)	1439(4721)(3.3)

**KARLAWINDA MINE**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	2000 (6562)	2060 (6758) (1.98%)	2000 (6562)	2000 (6562)
		RESA dimensions 240M X 60M commences from RWY end.			
19	(3)	2000 (6562)	2060 (6758) (1.65%)	2000 (6562)	2000 (6562)
		RESA dimensions 240M X 60M commences from RWY end.			
		Slope 0.25% down to S. RWY WID 30 RWS WID 280 Graded 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	1972(6470)(1.6)	2046(6713)(1.9)			
RWY19-	2044(6706)(1.6)				

**KARRATHA**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(4)	2280 (7480)	2340 (7677) (1.22%)	2280 (7480)	2280 (7480)
		RESA dimensions 90M X 150M commences from RWS end.			
26	(4)	2280 (7480)	2340 (7677) (1.26%)	2280 (7480)	2280 (7480)
		RESA dimensions 90M X 150M commences from RWS end.			
		1. RWY 08/26 transitional SFC south side infringed by secondary illuminated WDI 100M FM RWY 26 THR, 160M FM CL. Infringes by 20FT.			
		Slope 0.16% down to E. RWY WID 45 RWS WID 300 Graded 150			

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY08-	TKOF from TWY B;	RWY remaining 1665(5463)	reduce all DIST by 615(2018)
RWY08-	TKOF from TWY E;	RWY remaining 495(1624)	reduce all DIST by 1785(5856)
RWY26-	TKOF from TWY B;	RWY remaining 670(2198)	reduce all DIST by 1610(5282)
RWY26-	TKOF from TWY E;	RWY remaining 1828(5997)	reduce all DIST by 452(1483)

**KARUMBA**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	1378 (4521)	1438 (4718) (4.1%)	1378 (4521)	1378 (4521)
		RESA dimensions 90M X 60M commences from RWY end.			
21	(3)	1378 (4521)	1438 (4718) (3.61%)	1378 (4521)	1378 (4521)
		RESA dimensions 150M X 60M commences from RWY end.			
		1. Unlit OBST fence 4FT ABV and 20M SE of RWS end has not been taken into account in the calculation of TODA GRAD and STODA.			
		2. Surveyed to 90M inner edge.			
		Slope 0.05% down to SW. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	1186(3891)(1.6)	1252(4108)(1.9)	1300(4265)(2.2)	1336(4383)(2.5)	1402(4600)(3.3)
RWY21-	923(3028)(1.6)	1080(3543)(1.9)	1196(3924)(2.2)	1284(4213)(2.5)	1414(4639)(3.3)

**KATANNING**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(1)	1500 (4921)	1560 (5118) (1.77%)	1500 (4921)	1500 (4921)
		RESA dimensions 120M X 80M commences from RWY end.			
25	(1)	1500 (4921)	1560 (5118) (2.21%)	1500 (4921)	1500 (4921)
		RESA dimensions 100M X 80M commences from RWY end.			
		Slope 0.16% down to E. RWY WID 23 RWS WID 90			
13	(1)	1001 (3284)	1061 (3481) (3.13%)	1001 (3284)	1001 (3284)
		RESA dimensions 120M X 60M commences from RWY end.			
31	(1)	1001 (3284)	1061 (3481) (2.84%)	1001 (3284)	1001 (3284)
		RESA dimensions 100M X 60M commences from RWY end.			
		Slope 0.22% down to SW. RWY WID 18 RWS WID 60			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	1487(4879)(1.6)			
RWY25-	1162(3812)(1.6)	1392(4567)(1.9)	1554(5098)(2.2)	
RWY13-	829(2720)(2.2)	920(3018)(2.5)		
RWY31-	844(2769)(1.9)	935(3068)(2.2)	1003(3291)(2.5)	

**KEMPSEY**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1643 (5390)	1703 (5587) (2.3%)	1643 (5390)	1643 (5390)
		RESA dimensions 60M X 60M commences from RWY end.			
22	(2)	1643 (5390)	1703 (5587) (4.07%)	1643 (5390)	1643 (5390)
		RESA dimensions 60M X 60M commences from RWY end.			
		Slope 0.4% 340M down to SW, 0.5% 450M down to NE, LVL 850M to NE. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1501(4924)(1.6)	1623(5325)(1.9)	1696(5564)(2.2)	
RWY22-	927(3041)(1.9)	1128(3701)(2.2)	1279(4196)(2.5)	1546(5072)(3.3)

**KENS BORE**

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	2100 (6890)	2160 (7087) (1.43%)	2100 (6890)	2100 (6890)
		RESA dimensions 240M X 60M commences from RWS end.			
32	(3)	2100 (6890)	2160 (7087) (1.97%)	2100 (6890)	2100 (6890)
		RESA dimensions 240M X 60M commences from RWS end.			
		Slope 0.1% down to SE. RWY WID 30 RWS WID 280 Graded 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY32-	2059(6755)(1.6)	2147(7044)(1.9)		
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**KERANG**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	691 (2267)	751 (2464) (2.14%)	691 (2267)	691 (2267)
23	(1)	691 (2267)	751 (2464) (1.86%)	691 (2267)	691 (2267)
Slope Level. RWY WID 18 RWS WID 90					
14	(1)	1067 (3501)	1127 (3697) (2.85%)	1067 (3501)	1067 (3501)
Unlit OBST fence 2.8FT ABV and 2M S of RWS end has not been taken into account in the calculation of TODA GRAD and STODA.					
32	(1)	1067 (3501)	1127 (3697) (3.46%)	1067 (3501)	1067 (3501)
1. CAUTION: 3.33% obstacle clearance APCH surface on RWY 32 terminates at RWY end THR not RWS end.					
2. Transient OBST up to 14.1FT ABV and 97M N of RWS end has not been taken into account in the calculation of TODA GRAD and STODA.					
3. LDG RWY 32 - Unlit OBST fence 2.8FT ABV and 2M S of RWS end.					
Slope Level. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14-	903(2963)(1.9)	995(3264)(2.2)	1065(3494)(2.5)
RWY32-	936(3071)(2.5)	1106(3629)(3.3)	

**KIMBA**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(2)	1580 (5184)	1640 (5381) (1.6%)	1580 (5184)	1580 (5184)
RESA dimensions 90M X 60M commences from RWY end.					
21	(2)	1580 (5184)	1640 (5381) (2.87%)	1580 (5184)	1580 (5184)
RESA dimensions 90M X 60M commences from RWY end.					
1. OBST fence 5FT ABV and 30M W of RWS has not been taken into account in the calculation of TODA GRAD and STODA.					
2. 3.3% OBST clear APCH landing RWY 03 terminates at THR not RWS.					
Slope 0.3% down to NE. RWY WID 30 RWS WID 90					
15	(2)	1112 (3648)	1172 (3845) (1.2%)	1112 (3648)	1112 (3648)
33	(2)	1112 (3648)	1172 (3845) (2.23%)	1112 (3648)	1112 (3648)
Slope 0.2% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY21-	1309(4295)(1.6)	1444(4737)(1.9)	1531(5023)(2.2)	1605(5266)(2.5)
RWY33-	1056(3465)(1.6)	1115(3658)(1.9)	1168(3832)(2.2)	

**KING ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1585 (5200)	1645 (5397) (2.46%)	1585 (5200)	1585 (5200)
OBST fence 108FT AMSL BRG 101 MAG 911M FM ARP not taken into account in calculation of TODA GRAD and STODA.					
28	(3)	1585 (5200)	1645 (5397) (1.2%)	1585 (5200)	1585 (5200)
OBST fence 130FT AMSL BRG 297 MAG 894M FM ARP not taken into account in calculation of TODA GRAD and STODA.					
Slope 0.33% down to the W and 0.45% down to the E. Highest point 660M FM W end. RWY WID 30 RWS WID 150 Graded 90					
17	(2)	1105 (3625)	1165 (3822) (4.37%)	1105 (3625)	1105 (3625)
35	(2)	1105 (3625)	1165 (3822) (3.51%)	1105 (3625)	1105 (3625)
Slope 0.9% down to N. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	1307(4288)(1.6)	1465(4806)(1.9)	1588(5210)(2.2)
RWY17-	1068(3504)(2.2)	1099(3606)(2.5)	1139(3737)(3.3)
RWY35-	1053(3455)(1.6)	1080(3543)(1.9)	1102(3615)(2.2) 1122(3681)(2.5) 1158(3799)(3.3)

**KINGARROY**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1303 (4275)	1363 (4472) (3.3%)	1303 (4275)	1303 (4275)
RESA dimensions 60M X 60M commences from RWY end.					
23	(2)	1303 (4275)	1363 (4472) (6.18%)	1303 (4275)	1303 (4275)
RESA dimensions 60M X 60M commences from RWY end.					
Slope 1.3% down to SW. RWY WID 30 RWS WID 90					
16	(3)	1600 (5249)	1660 (5446) (5.6%)	1600 (5249)	1600 (5249)
RESA dimensions 60M X 60M commences from RWS end.					
Critical OBST 4FT high levee bank 20M out and 67M left FM RWS extended CL.					
34	(3)	1600 (5249)	1660 (5446) (4.45%)	1600 (5249)	1600 (5249)
RESA dimensions 60M X 60M commences from RWS end.					
Slope 0.9% down to N. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY16- 1189(3901)(1.9) 1427(4682)(2.2) 1488(4882)(2.5) 1576(5171)(3.3) 1648(5407)(5.0)  
 RWY34- 1337(4386)(1.6) 1402(4600)(1.9) 1454(4770)(2.2) 1498(4915)(2.5) 1582(5190)(3.3)

**KINGSCOTE/KANGAROO ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	1815 (5955)	1875 (6152) (1.87%)	1815 (5955)	1815 (5955)
TKOF RWY 01 OBST. Transient vehicles 17FT ABV and 145M FM RWS end.					
19	(3)	1815 (5955)	1875 (6152) (2.5%)	1815 (5955)	1815 (5955)
Slope Level. RWY WID 30 RWS WID 150 Graded 90					
06	(2)	1134 (3720)	1194 (3917) (3.51%)	1134 (3720)	1134 (3720)
24	(2)	1134 (3720)	1194 (3917) (2.46%)	1134 (3720)	1134 (3720)
Slope 0.1% down to NE. RWY WID 30 RWS WID 90					
15	(2)	1384 (4541)	1459 (4787) (2.73%)	1384 (4541)	1384 (4541)
33	(2)	1384 (4541)	1444 (4737) (3.41%)	1384 (4541)	1384 (4541)
Slope Level. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01- 1765(5791)(1.6)  
 RWY19- 1591(5220)(1.6) 1724(5656)(1.9) 1812(5945)(2.2)  
 RWY06- 818(2684)(1.9) 927(3041)(2.2) 1028(3373)(2.5) 1170(3839)(3.3)  
 RWY24- 1041(3415)(1.6) 1142(3747)(1.9) 1162(3812)(2.2)  
 RWY15- 1031(3383)(1.6) 1194(3917)(1.9) 1313(4308)(2.2) 1404(4606)(2.5)  
 RWY33- 800(2625)(1.9) 1000(3281)(2.2) 1151(3776)(2.5) 1425(4675)(3.3)

**KOOLAN ISLAND/KOOLAN CENTRAL**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	2100 (6890)	2160 (7087) (1.81%)	2100 (6890)	2100 (6890)
RESA dimensions 90M X 60M commences from RWS end.					
29	(3)	2100 (6890)	2160 (7087) (1.2%)	2100 (6890)	2100 (6890)
RESA dimensions 90M X 60M commences from RWS end.					
RWY 11/29 APCH inner edge length 150M.					
Slope 0.34% down to E. Slope rises 0.223% FM THR RWY 11 and rises 0.79% FM THR RWY 29. Highest point in centre of RWY. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11- 2089(6854)(1.6)

**KOWANYAMA**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(2)	1380 (4528)	1440 (4724) (2.76%)	1380 (4528)	1380 (4528)
30	(2)	1380 (4528)	1440 (4724) (2.44%)	1380 (4528)	1380 (4528)

1. TNS N side infringed by trees 1,000M W end, trees LOC 100M FM RCL infringe by 10FT.  
Slope Level. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	824(2703)(1.6)	1054(3458)(1.9)	1222(4009)(2.2)	1349(4426)(2.5)
RWY30-	1206(3957)(1.6)	1313(4308)(1.9)	1390(4560)(2.2)	

**KUNUNURRA**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1829 (6001)	1889 (6197) (2.89%)	1829 (6001)	1829 (6001)
30	(3)	1829 (6001)	1889 (6197) (1.38%)	1829 (6001)	1829 (6001)

1. RWY 30 TKOF terrain 15,780M FM TODA end 1027FT ABV AD.

2. RWY 12/30 APCH inner edge length 150M.

Slope 0.1% down to NW. RWY WID 30 RWS WID 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	1464(4803)(1.6)	1617(5305)(1.9)	1726(5663)(2.2)	1808(5932)(2.5)
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**LAKE CARGELLIGO**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1200 (3937)	1260 (4134) (1.58%)	1200 (3937)	1200 (3937)
RESA dimensions 60M X 90M commences from RWY end.					
23	(2)	1200 (3937)	1260 (4134) (2.3%)	1200 (3937)	1200 (3937)
RESA dimensions 60M X 90M commences from RWY end.					
Slope Initial 650M 1.1% down to NE, remainder 0.6% down to NE. RWY WID 30 RWS WID 90					
12	(2)	879 (2884)	939 (3081) (3.04%)	879 (2884)	879 (2884)
RESA dimensions 60M X 90M commences from RWY end.					
30	(2)	879 (2884)	939 (3081) (1.99%)	879 (2884)	879 (2884)
RESA dimensions 60M X 90M commences from RWY end.					
Slope Initial 350M 0.8% down to NW, remainder 0.3% down to NW. RWY WID 23 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY23-	992(3255)(1.9)	1236(4055)(2.2)			
RWY12-	844(2769)(1.6)	891(2923)(1.9)	909(2982)(2.2)	922(3025)(2.5)	
RWY30-	849(2785)(1.6)	920(3018)(1.9)			

**LAKE EVELLA**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(1)	1065 (3494)	1125 (3691) (1.46%)	1065 (3494)	1065 (3494)
26	(1)	1065 (3494)	1125 (3691) (3.4%)	1065 (3494)	1065 (3494)
Slope 0.5% down to W. RWY WID 18 RWS WID 80					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY26-	936(3071)(1.6)	981(3218)(1.9)	1019(3343)(2.2)	1051(3448)(2.5)	1117(3665)(3.3)
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**LATROBE VALLEY**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(2)	1430 (4692)	1490 (4888) (3.01%)	1430 (4692)	1430 (4692)
RESA dimensions 68M X 90M commences from RWY end.					
21	(2)	1430 (4692)	1490 (4888) (2.68%)	1430 (4692)	1430 (4692)
RESA dimensions 60M X 90M commences from RWY end.					
1. Approaches RWY 03/21 based on 90 RWS WID.					
2. RWY 03/21 TKOF SFC survey based on 180M RWS/inner edge.					
3. CAUTION: Transient OBST 13FT ABV and 51M NE of RWS end, and OBST - Fence 4.6FT ABV and 38M FM RWS end, not taken into account in calculation of TODA GRAD and STODA.					
4. RWY 21 3.3% OBST CLR APCH SFC for LDG terminates at THR, not RWS end.					
5. LDG RWY 21 - Transient OBST 13FT ABV and 51M NW of RWS end, and OBST fence 4.6FT ABV and 38M NE of RWS end.					
Slope 0.4% down to SW. RWY WID 23 RWS WID 90					
09	(1)	919 (3015)	978 (3209) (4.03%)	919 (3015)	919 (3015)
RESA dimensions 60M X 90M commences from RWY end.					
RWY 09 N side transitional SFC infringed					
27	(1)	919 (3015)	978 (3209) (3.99%)	919 (3015)	919 (3015)
RESA dimensions 60M X 90M commences from RWY end.					
Slope FM E 0.3% down to TWY, from TWY 1.0% down to W end. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	1061(3481)(1.6)	1186(3891)(1.9)	1301(4268)(2.2)	1388(4554)(2.5)	
RWY21-	919(3015)(1.6)	1095(3592)(1.9)	1276(4186)(2.2)	1417(4649)(2.5)	
RWY09-	853(2799)(3.3)				
RWY27-	871(2858)(3.3)				

**LAUNCESTON**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
14R	(4)	1981 (6499)	2041 (6696) (2.04%)	1981 (6499)	1981 (6499)
		RESA dimensions 90M X 90M commences from RWY end.			
32L	(4)	1981 (6499)	2041 (6696) (2.34%)	1981 (6499)	1981 (6499)
		RESA dimensions 60M X 60M commences from RWY end.			
		Slope 0.3% ends down to centre. RWY WID 45 RWS WID 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14R-	1834(6017)(1.6)	2004(6575)(1.9)		
RWY32L-	1299(4262)(1.6)	1973(6473)(1.9)	2033(6670)(2.2)	

**LAVERTON**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
07	(3)	1800 (5905)	1860 (6102) (2.84%)	1800 (5905)	1800 (5905)
		RESA dimensions 50M X 60M commences from RWY end.			
25	(3)	1800 (5905)	1860 (6102) (1.46%)	1800 (5905)	1800 (5905)
		RESA dimensions 50M X 60M commences from RWY end.			
		Slope 0.3% down to SW. RWY WID 30 RWS WID 90			
16	(2)	919 (3015)	979 (3212) (2.17%)	919 (3015)	919 (3015)
34	(2)	919 (3015)	979 (3212) (1.66%)	919 (3015)	919 (3015)
		Slope 0.2% down to N. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	1609(5279)(1.6)	1705(5594)(1.9)	1771(5810)(2.2)	1819(5968)(2.5)
RWY16-	899(2949)(1.6)	946(3104)(1.9)		
RWY34-	968(3176)(1.6)			

**LEARMONTH**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
18	(4)	3047 (9997)	3352 (10997) (2.85%)	3047 (9997)	3047 (9997)
36	(4)	3047 (9997)	3352 (10997) (1.2%)	3047 (9997)	3047 (9997)
		TKOF Climb SFC Inner edge WID 180.			
		Slope 0.06% down to N. RWY WID 45 RWS WID 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	3236(10617)(1.6)	3278(10754)(1.9)	3308(10853)(2.2)	3331(10928)(2.5)
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**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY18-	TKOF from TWY F;	RWY remaining 2234(7329)	reduce all DIST by 813(2667)
RWY18-	TKOF from TWY G;	RWY remaining 1379(4524)	reduce all DIST by 1668(5472)
RWY18-	TKOF from TWY W;	RWY remaining 829(2720)	reduce all DIST by 2218(7277)
RWY36-	TKOF from TWY G;	RWY remaining 1683(5522)	reduce all DIST by 1364(4475)
RWY36-	TKOF from TWY W;	RWY remaining 2238(7342)	reduce all DIST by 809(2654)

**LEIGH CREEK**

RWY	(CN)	TORA	TODA	ASDA	LDA
02	(2)	1219 (3999)	1279 (4196) (1.2%)	1219 (3999)	1219 (3999)
RESA dimensions 60M X 60M commences from RWY end.					
20	(2)	1219 (3999)	1279 (4196) (1.91%)	1219 (3999)	1219 (3999)
RESA dimensions 60M X 60M commences from RWY end.					
Slope 0.3% down centre to NE, 0.2% down centre to SW. RWY WID 18 RWS WID 90					
11	(2)	1710 (5610)	1770 (5807) (3.15%)	1710 (5610)	1710 (5610)
RESA dimensions 60M X 60M commences from RWY end.					
29	(2)	1710 (5610)	1770 (5807) (1.2%)	1710 (5610)	1710 (5610)
RESA dimensions 60M X 60M commences from RWY end.					
Slope 0.2% down NW to centre; 0.1% down SE to centre. RWY WID 30 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY20-	950(3117)(1.6)	1278(4193)(1.9)			
RWY11-	1650(5413)(1.6)	1698(5571)(1.9)	1724(5656)(2.2)	1742(5715)(2.5)	

**LEINSTER**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1800 (5905)	1860 (6102) (2.5%)	1800 (5905)	1800 (5905)
RESA dimensions 90M X 60M commences from RWS end.					
28	(3)	1800 (5905)	1860 (6102) (1.59%)	1800 (5905)	1800 (5905)
RESA dimensions 90M X 60M commences from RWS end.					
APCH inner edge length 150M.					
Slope 0.1% down to W, E end 0.1% down to E. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	1686(5531)(1.6)	1762(5781)(1.9)	1817(5961)(2.2)	1858(6096)(2.5)	
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**LEONORA**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	2018 (6621)	2078 (6818) (2.39%)	2018 (6621)	2018 (6621)
22	(3)	2018 (6621)	2078 (6818) (2.45%)	2018 (6621)	2018 (6621)
Slope 0.3% down to SW. RWY WID 30 RWS WID 150 Graded 90					
12	(2)	1140 (3740)	1200 (3937) (3.13%)	1140 (3740)	1140 (3740)
30	(2)	1140 (3740)	1200 (3937) (3.38%)	1140 (3740)	1140 (3740)
Slope 0.2% down to NW. Length of TKOF SFC 7500. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1794(5886)(1.6)	1934(6345)(1.9)	2030(6660)(2.2)		
RWY22-	1930(6332)(1.6)	1996(6548)(1.9)	2046(6713)(2.2)		
RWY12-	848(2782)(2.2)	993(3258)(2.5)			
RWY30-	1021(3350)(1.6)	1072(3517)(1.9)	1111(3645)(2.2)	1141(3743)(2.5)	

**LIGHTNING RIDGE**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	733 (2405)	793 (2602) (5.4%)	733 (2405)	733 (2405)
22	(2)	733 (2405)	793 (2602) (2%)	733 (2405)	733 (2405)
Slope 0.7% down to SW. RWY WID 30 RWS WID 90					
10	(1)	1506 (4941)	1566 (5138) (7.21%)	1506 (4941)	1506 (4941)
28	(1)	1506 (4941)	1566 (5138) (2.96%)	1506 (4941)	1506 (4941)
RESA dimensions 60M X 36M commences from RWS end.					
Slope 0.4% down to W. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	1271(4170)(1.6)	1356(4449)(1.9)	1406(4613)(2.2)	1443(4734)(2.5)	1500(4921)(3.3)
	1541(5056)(5.0)				
RWY28-	1378(4521)(1.6)	1444(4737)(1.9)	1493(4898)(2.2)	1528(5013)(2.5)	

**LISMORE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
15	(3)	1647 (5403)	1707 (5600) (3.31%)	1647 (5403)	1647 (5403)

RESA dimensions 60M X 60M commences from RWY end.

Caution: Transient OBST up to 19.3FT ABV and 161M SE of RWS end is not taken account in the calculation of TODA GRAD or STODA.

33	(3)	1647 (5403)	1707 (5600) (3.94%)	1647 (5403)	1647 (5403)
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RESA dimensions 60M X 60M commences from RWY end.

1. Horizontal SFC significantly infringed; caution night circling.

2. CAUTION: Unlit OBST fence at RWY 33 TODA end 2.8FT ABV RWY, has not been taken into account in the calculation of TODA GRAD and STODA.

3. Side transitions infringed. Marked by obstruction lights.

Slope 0.1% down to SE. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY15-	1172(3845)(1.6)	1317(4321)(1.9)	1423(4669)(2.2)	1503(4931)(2.5)	1645(5397)(3.3)
RWY33-	1095(3592)(1.6)	1242(4075)(1.9)	1348(4423)(2.2)	1429(4688)(2.5)	1573(5161)(3.3)

**LOCKHART RIVER**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
12	(3)	1500 (4921)	1560 (5118) (1.95%)	1500 (4921)	1500 (4921)

RESA dimensions 90M X 90M commences from RWS end.

30	(3)	1500 (4921)	1560 (5118) (2.74%)	1500 (4921)	1500 (4921)
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RESA dimensions 90M X 90M commences from RWS end.

1. RWY reference code based on 90M TKOF inner edge WID.

2. CAUTION: Transitional SFC infringed by tree growth each side on SE end of RWY.

3. RWY 30 Extent of TKOF SFC 7500M.

Slope 0.6% down to NW. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	1237(4058)(1.6)	1521(4990)(1.9)
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**LONGREACH**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
04	(3)	1936 (6352)	2036 (6680) (1.2%)	1936 (6352)	1936 (6352)

RESA dimensions 90M X 60M commences from RWS end.

RWY 04 approach side transition SFC E side infringed by hangar. 140M FM CL, infringed by 8FT marked by red OBST LGT.

22	(3)	1936 (6352)	2056 (6745) (2.87%)	1936 (6352)	1936 (6352)
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RESA dimensions 90M X 60M commences from RWS end.

1. RWY 04/22 OBST TKOF SFC survey based on 180M inner edge WID.

2. OBST fence 11FT ABV and 105M S of RWS end centreline not taken into account in determination of TODA gradient and STODA.

3. Caution: NE end unlit OBST levee 4FT ABV and 88M SE of RWS CL has not been taken into account in the calculation of TODA GRAD and STODA.

Slope Level. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY22-	1739(5705)(1.6)	1885(6184)(1.9)	1967(6453)(2.2)	2015(6611)(2.5)
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**LORD HOWE ISLAND**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
10	(2)	888 (2913)	948 (3110) (9.46%)	888 (2913)	888 (2913)
RESA dimensions 30M X 60M commences from RWY end.					
28	(2)	888 (2913)	948 (3110) (1.6%)	888 (2913)	785 (2575)
RESA dimensions 30M X 60M commences from RWY end.					

1. RWY 28 DTHR 103M (338FT).
  2. TORA is the LEN FM TKOF 10 end bar to TKOF 28 end bar. 60M sealed CWY provided to each end beyond TKOF end bars.
  3. If SOT FM sealed RWS CWY end bar, then add 60M to TORA, TODA, ASDA and STODAs.
  4. RWY 10 TKOF critical 8.6% TODA end GRAD based on sand dune 50M (998M SOT) out FM and 47M left of E RWS end.
  5. Critical APCH GRAD to 103M DISP THR 28 is 2.98% over the traversing sand dune, and trees at 3.8% on a hillside 1206M out FM E RWS CWY end and 206M left of APCH to the E THR 28.
  6. RWY 28 TKOF critical 1.6% TODA end GRAD and STODAs ignore 3FT high sea wall 20M (968M SOT) out FM and 39M right of W RWS end.
  7. Several significant transitional and inner horizontal OLS terrain infringements exist to both sides of the RWS.
  8. Beware, an anemometer about 260M back FM and 65M right of APCH to the W RWS end as it infringes the transitional OLS by 22FT.
- Slope Level. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10- 853(2799)(3.3) 907(2976)(5.0)

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**MACKAY**

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(4)	1981 (6499)	2041 (6696) (2.4%)	1981 (6499)	1981 (6499)
RESA dimensions 90M X 90M commences from RWY end.					
32	(4)	1981 (6499)	2041 (6696) (2.01%)	1981 (6499)	1981 (6499)
RESA dimensions 90M X 90M commences from RWY end.					
RWY 14/32 APCH SFC based on 150M inner edges.					
Slope Level. RWY WID 45 RWS WID 150 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14-	1865(6119)(1.6)	1949(6394)(1.9)	2010(6594)(2.2)
RWY32-	1799(5902)(1.6)	1989(6526)(1.9)	

**MAITLAND (NSW)**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1226 (4022)	1286 (4219) (3.72%)	1226 (4022)	1128 (3701)
RESA dimensions 30M X 80M commences from RWS end.					
RWY 05 DTHR 98M.					
23	(2)	1226 (4022)	1286 (4219) (4.38%)	1226 (4022)	1226 (4022)
RESA dimensions 90M X 80M commences from RWS end.					
Slope 0.5% down to NE. RWY WID 15 RWS WID 80					
08	(1)	1009 (3310)	1039 (3409) (10.57%)	1009 (3310)	781 (2562)
RESA dimensions 20M X 60M commences from RWS end.					
RWY 08 DTHR 228M.					
26	(1)	1009 (3310)	1039 (3409) (9.54%)	1009 (3310)	800 (2625)
RESA dimensions 30M X 60M commences from RWS end.					
RWY 26 DTHR 209M.					
Slope 0.9% down to E. RWY WID 10 RWS WID 60					
18	(1)	502 (1647)	532 (1745) (3.17%)	502 (1647)	502 (1647)
RESA dimensions 60M X 60M commences from RWS end.					
36	(1)	502 (1647)	532 (1745) (5.63%)	502 (1647)	502 (1647)
RESA dimensions 15M X 60M commences from RWS end.					
Slope 0.35% down to S. RWY WID 18 RWS WID 60					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	880(2887)(1.9)	980(3215)(2.2)	1064(3491)(2.5)	1227(4026)(3.3)
RWY23-	1047(3435)(3.3)			
RWY08-	877(2877)(5.0)			

**MALLACOOTA**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(2)	881 (2890)	941 (3087) (2.65%)	881 (2890)	881 (2890)
25	(2)	881 (2890)	941 (3087) (3.76%)	881 (2890)	881 (2890)
1. All transitional SFC infringed.					
2. CAUTION: Fence 15.6FT ABV and 70M W of RWS end has not been taken into account in the calculation of TODA GRAD and STODA.					
Slope 0.7% down to E. RWY WID 30 RWS WID 90 Graded 90					
18	(1)	1028 (3373)	1088 (3570) (3.36%)	1028 (3373)	1028 (3373)
RESA dimensions 60M X 90M commences from RWY end.					
36	(1)	1028 (3373)	1088 (3570) (2.94%)	1028 (3373)	1028 (3373)
RESA dimensions 60M X 90M commences from RWY end.					
All transitional SFC infringed.					
Slope 0.2% down to S. RWY WID 18 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	817(2680)(1.6)	858(2815)(1.9)	893(2930)(2.2)	927(3041)(2.5)
RWY18-	859(2818)(2.2)	934(3064)(2.5)	1079(3540)(3.3)	
RWY36-	982(3222)(2.2)	1037(3402)(2.5)		

**MANGALORE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
05	(2)	2027 (6650)	2087 (6847) (3.13%)	2027 (6650)	2027 (6650)
23	(2)	2027 (6650)	2087 (6847) (2.23%)	2027 (6650)	2027 (6650)

Slope 0.1% down to SW. RWY WID 23 RWS WID 90

18	(2)	1461 (4793)	1521 (4990) (2.62%)	1461 (4793)	1461 (4793)
36	(2)	1461 (4793)	1521 (4990) (3.82%)	1461 (4793)	1461 (4793)

Slope Level. RWY WID 23 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	1338(4390)(1.6)	1593(5226)(1.9)	1763(5784)(2.2)	1897(6224)(2.5)
RWY23-	1741(5712)(1.6)	1933(6342)(1.9)	2076(6811)(2.2)	
RWY18-	1222(4009)(1.6)	1357(4452)(1.9)	1440(4724)(2.2)	1501(4924)(2.5)
RWY36-	1020(3346)(1.6)	1183(3881)(1.9)	1270(4167)(2.2)	1338(4390)(2.5) 1469(4819)(3.3)

**MANINGRIDA**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
14	(3)	1530 (5020)	1590 (5216) (2.11%)	1530 (5020)	1530 (5020)
32	(3)	1530 (5020)	1590 (5216) (1.2%)	1530 (5020)	1530 (5020)

1. RWY 14/32 OBST surveys are conducted using 90M inner edge width.

2. OBST trees 89FT AGL PSN 189M right of the CL at THR RWY 32, extending 500M to the NW RWY 14/32 transitional SFC infringed by 15FT.

Slope 0.3% down to NW. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14-	1006(3300)(1.6)	1393(4570)(1.9)
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**MANJIMUP**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
12	(1)	1224 (4016)	1284 (4213) (3.45%)	1224 (4016)	1224 (4016)
Transition surface may be infringed by vegetation, IWI and parked aircraft adjacent to RWS.					
30	(1)	1224 (4016)	1284 (4213) (3.94%)	1224 (4016)	1224 (4016)
Transition surface may be infringed by vegetation, IWI and parked aircraft adjacent to RWS.					
Slope 0.32% down to SE. RWY WID 18 RWS WID 80 Graded 80					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	982(3222)(1.6)	1065(3494)(1.9)	1129(3704)(2.2)	1179(3868)(2.5) 1272(4173)(3.3)
RWY30-	920(3018)(2.2)	1024(3360)(2.5)	1198(3930)(3.3)	

**MARBLE BAR**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
09	(3)	2050 (6726)	2110 (6922) (1.91%)	2050 (6726)	1900 (6234)
RESA dimensions 90M X 60M commences from RWS end.					
TKOF run commences at starter extension, 150M beyond THR RWY 09.					
27	(3)	1900 (6234)	1960 (6430) (1.83%)	1900 (6234)	1900 (6234)
RESA dimensions 220M X 60M commences from RWS end.					
TNS infringed by terrain rising up to 6FT from 400M W of TWY A.					
Slope 0.223% down to W. RWY WID 30 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	2080(6824)(1.6)	2109(6919)(1.9)
RWY27-	1920(6299)(1.6)	



**MAREEBA**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1839 (6033)	1899 (6230) (4.54%)	1839 (6033)	1672 (5485)
1. RWY 10 DTHR 167M (548FT).					
2. RWY reference code based on 90M TKOF inner edge WID.					
3. Width of inner edge for Approach RWY 10 - 150M.					
4. LDG RWY 10 Unlit OBST fence 4FT ABV & 25M SW of RWS end, has not been taken into account in the calculation of the TODA GRAD and STODA.					
28	(3)	1672 (5485)	1732 (5682) (3.24%)	1672 (5485)	1505 (4938)
1. RWY 28 DTHR 167M (548FT).					
2. RWY TKOF SFC survey based on 150M TKOF inner edge WID.					
3. RWY 10/28 TKOF/Climb SFC Non-ICAO length surveyed 7500M.					
Slope 0.55% down to W. RWY WID 30 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	985(3232)(1.9)	1284(4213)(2.2)	1466(4810)(2.5)	1718(5636)(3.3)
RWY28-	1308(4291)(1.6)	1409(4623)(1.9)	1488(4882)(2.2)	1551(5089)(2.5)

**MARYBOROUGH (QLD)**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(2)	885 (2904)	945 (3100) (3.72%)	885 (2904)	885 (2904)
RESA dimensions 60M X 90M commences from RWS end.					
30	(2)	885 (2904)	945 (3100) (2.61%)	885 (2904)	885 (2904)
RESA dimensions 60M X 90M commences from RWS end.					
Slope 0.2% down to NW. RWY WID 30 RWS WID 90					
17	(3)	1587 (5207)	1707 (5600) (5.76%)	1587 (5207)	1587 (5207)
RESA dimensions 90M X 90M commences from RWS end.					
35	(3)	1587 (5207)	1647 (5403) (3.73%)	1587 (5207)	1587 (5207)
RESA dimensions 90M X 90M commences from RWS end.					
Slope 0.2% down to N. RWY WID 30 RWS WID 90 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	886(2907)(3.3)				
RWY30-	881(2890)(2.2)	930(3051)(2.5)			
RWY17-	928(3045)(1.6)	1192(3911)(1.9)	1368(4488)(2.2)	1457(4780)(2.5)	1591(5220)(3.3)
	1684(5525)(5.0)				
RWY35-	1105(3625)(1.6)	1276(4186)(1.9)	1377(4518)(2.2)	1454(4770)(2.5)	1595(5233)(3.3)

**MCARTHUR RIVER MINE**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	2500 (8202)	2560 (8399) (1.96%)	2500 (8202)	2500 (8202)
24	(3)	2500 (8202)	2560 (8399) (2.21%)	2500 (8202)	2500 (8202)
Slope W end level. E end 0.3% down to E. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	2300(7546)(1.6)	2523(8277)(1.9)	
RWY24-	2401(7877)(1.6)	2496(8189)(1.9)	2560(8399)(2.2)

**MEEKATHARRA**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	2181 (7155)	2241 (7352) (1.2%)	2181 (7155)	2181 (7155)
RESA dimensions 90M X 30M commences from RWY end.					
27	(3)	2181 (7155)	2241 (7352) (2.03%)	2181 (7155)	2181 (7155)
RESA dimensions 90M X 30M commences from RWY end.					
RWY 09/27 APCH inner edge length 150M.					
Slope 0.12% down to E. RWY WID 30 RWS WID 150					
15	(2)	1065 (3494)	1125 (3691) (1.26%)	1065 (3494)	1065 (3494)
33	(2)	1065 (3494)	1125 (3691) (1.2%)	1065 (3494)	1065 (3494)
Slope 0.1% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY27- 2165(7103)(1.6) 2221(7287)(1.9)

**MELBOURNE**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(4)	2286 (7500)	2436 (7992) (2.08%)	2346 (7697)	2286 (7500)
RESA dimensions 240M X 150M commences from RWS end.					
TNS infringed by trees RWY 09.					
27	(4)	2286 (7500)	2436 (7992) (1.52%)	2346 (7697)	2286 (7500)
RESA dimensions 240M X 150M commences from RWS end.					
1. RWY 27 APCH lights up to 2FT high WI CWY.					
2. RWY 27 APCH lights BTN 0 and 60M FM CWY end and 2FT ABV CWY end are not taken into account in calculation of TODA GRAD and STODA.					
3. TNS infringed N side by OBST (illuminated WDI), 100M FM RWY 09 THR.					
4. TNS and APCH SFC infringed by trees RWY 27.					
Slope E end level, centre 0.4% down to W. W end 0.1% down to E. RWY WID 45 RWS WID 300					
16	(4)	3657 (11998)	3777 (12392) (2.02%)	3717 (12195)	3657 (11998)
RESA dimensions 240M X 150M commences from RWS end.					
34	(4)	3657 (11998)	3837 (12588) (2.02%)	3717 (12195)	3657 (11998)
RESA dimensions 240M X 150M commences from RWS end.					
1. TNS infringed by trees both RWY.					
2. RWY 34 APCH SFC infringed by trees.					
3. RWY 16 APCH lights up to 3FT high WI CWY.					
4. RWY 16 APCH lights BTN 3M & 124M FM RWY 34 CWY end and FM 3FT to 7FT ABV CWY end are not taken into account in calculation of TODA GRAD and STODA.					
Slope 0.9% down to S. RWY WID 60 RWS WID 300					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09- 2302(7552)(1.6) 2393(7851)(1.9)  
 RWY16- 3667(12031)(1.6) 3752(12310)(1.9)  
 RWY34- 3406(11174)(1.6) 3750(12303)(1.9)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY27-	TKOF from TWY A;	RWY remaining 1652(5420)	reduce all DIST by 634(2080)
RWY16-	TKOF from RWY INT;	RWY remaining 2715(8907)	reduce all DIST by 942(3091)
RWY16-	TKOF from TWY C;	RWY remaining 3353(11001)	reduce all DIST by 304(997)
RWY16-	TKOF from TWY E;	RWY remaining 2345(7693)	reduce all DIST by 1312(4304)
RWY16-	TKOF from TWY F;	RWY remaining 1818(5964)	reduce all DIST by 1839(6033)
RWY34-	TKOF from TWY E;	RWY remaining 1336(4383)	reduce all DIST by 2321(7615)
RWY34-	TKOF from TWY G;	RWY remaining 1953(6407)	reduce all DIST by 1704(5590)
RWY34-	TKOF from TWY J;	RWY remaining 2903(9524)	reduce all DIST by 754(2474)

**LAHSO DISTANCES**

LDA for LAHSO

RWY 34 - 2613(8573)

**MELBOURNE/ESSENDON**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(4)	1921 (6302)	1981 (6499) (2.59%)	1921 (6302)	1921 (6302)
26	(4)	1921 (6302)	1981 (6499) (3.73%)	1921 (6302)	1921 (6302)

1. OBST in flyover area of RWS refer ERSA.
  2. Multiple lit and unlit masts BTN 2061-2204M FM RWY 26 SOT BTN 101M L and 101M R RCL.
  3. Masts infringe 2% TKOF SFC up to 3.3% not ABV 261FT AMSL.
  4. Masts are street lights along the Tullamarine Freeway.
- Slope 0.4% down to the W for 700M then 0.2% down to E for the remainder. RWY WID 45 RWS WID 180 Graded 150

17	(3)	1503 (4931)	1563 (5128) (3.04%)	1503 (4931)	1503 (4931)
35	(3)	1503 (4931)	1563 (5128) (1.82%)	1503 (4931)	1503 (4931)

- RWY 35 fixed distance and touch down zone markings displaced 33M to N.  
Slope 0.9% down to S. RWY WID 45 RWS WID 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	1918(6293)(1.6)	1949(6394)(1.9)	1968(6457)(2.2)	1976(6483)(2.5)
RWY26-	1713(5620)(1.6)	1781(5843)(1.9)	1831(6007)(2.2)	1871(6138)(2.5) 1951(6401)(3.3)
RWY17-	1427(4682)(1.6)	1470(4823)(1.9)	1501(4924)(2.2)	1528(5013)(2.5)
RWY35-	1302(4272)(1.6)			

**MELBOURNE/MOORABBIN**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	571 (1873)	601 (1972) (5.77%)	571 (1873)	500 (1640)
22	(1)	571 (1873)	601 (1972) (5.34%)	571 (1873)	541 (1775)
13L	(2)	1149 (3770)	1209 (3966) (3.35%)	1149 (3770)	1040 (3412)
31R	(2)	1149 (3770)	1209 (3966) (7.25%)	1149 (3770)	1149 (3770)
13R	(1)	1060 (3478)	1120 (3674) (4%)	1060 (3478)	894 (2933)
31L	(1)	1060 (3478)	1120 (3674) (3.34%)	1060 (3478)	914 (2999)

- RWY 04 DTHR 71M(232FT).  
RWY 22 DTHR 30M(98FT).  
Slope 0.2% down to SW. RWY WID 18 RWS WID 60 Graded 60  
RWY 13L DTHR 109M(358FT).  
RWS surveyed to 80M.  
Slope 0.4% down to SE. RWY WID 30 RWS WID 80 Graded 90  
RWY 13R DTHR 166M(545FT).  
RWY 31L DTHR 146M(480FT).  
1. RWY 31L DTHR 146M(480FT).  
2. ACFT 18FT AGL taxiing on TWY A, 1140 FM SOT RWY 31L not taken into account in the calculation of TODA GRAD.  
3. RWS surveyed to 80M.  
Slope 0.4% down to SE. RWY WID 18 RWS WID 80 Graded 90

17L	(2)	1335 (4380)	1395 (4577) (4.93%)	1335 (4380)	1050 (3445)
35R	(2)	1335 (4380)	1395 (4577) (9.73%)	1335 (4380)	1160 (3806)
17R	(1)	1240 (4068)	1300 (4265) (9.22%)	1240 (4068)	1046 (3432)
35L	(1)	1240 (4068)	1300 (4265) (9.69%)	1240 (4068)	1086 (3563)

- RESA dimensions 60M X 60M commences from RWS end.  
RWY 17L DTHR 285M(936FT).  
RESA dimensions 60M X 60M commences from RWY end.  
1. RWY 35R DTHR 175M(574FT).  
2. RWS surveyed to 140M.  
Slope 0.4% down to S. RWY WID 30 RWS WID 140 Graded 90  
RWY 17R DTHR 194M(636FT).  
1. RWY 35L DTHR 154M(505FT).  
2. RWS surveyed to 80M.  
Slope 0.4% down to S. RWY WID 18 RWS WID 80 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY13L- 866(2841)(1.9) 966(3169)(2.2) 1046(3432)(2.5) 1202(3944)(3.3)  
 RWY31R- 943(3094)(3.3) 1113(3652)(5.0)  
 RWY13R- 815(2674)(2.2) 907(2976)(2.5) 1083(3553)(3.3)  
 RWY31L- 823(2700)(2.5) 1113(3652)(3.3)  
 RWY17L- 824(2703)(1.6) 940(3084)(1.9) 1031(3383)(2.2) 1106(3629)(2.5) 1241(4071)(3.3)  
 RWY35R- 887(2910)(2.2) 1036(3399)(2.5) 1217(3993)(3.3) 1332(4370)(5.0)  
 RWY17R- 880(2887)(2.5) 1037(3402)(3.3) 1215(3986)(5.0)  
 RWY35L- 817(2680)(2.5) 984(3228)(3.3) 1153(3783)(5.0)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY17R- TKOF from TWY A1; RWY remaining 1079(3540) reduce all DIST by 161(528)  
 RWY35L- TKOF from TWY A7; RWY remaining 1066(3497) reduce all DIST by 174(571)

**MERIMBULA**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	1602 (5256)	1662 (5453) (3.47%)	1602 (5256)	1602 (5256)

Fence 7.9FT ABV and PARL to RWY, 81M E of RCL, and transient OBST up to 13.4FT ABV and 95M NE of RWS end, not taken into account in the calculation of TODA GRAD and STODA.

Use of alternate start position RWY 03 PPR.

RWY 03 ALTERNATE declared distances:

**TORA TODA ASDA LDA**

1721 1781(3.47) 1721 1602

**SUPPLEMENTARY TAKEOFF DISTANCES**

1015(2.2) 1354(2.5) 1767(3.3)

21	(3)	1602 (5256)	1662 (5453) (3.47%)	1602 (5256)	1602 (5256)
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TKOF climb SFC inner edge 150M. Transition SFC infringed by trees both sides of RWY.

Use of alternate start position RWY 21 PPR.

RWY 21 ALTERNATE declared distances:

**TORA TODA ASDA LDA**

1721 1781(3.47) 1721 1602

**SUPPLEMENTARY TAKEOFF DISTANCES**

1698(3.3)

Slope Level. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03- 896(2940)(2.2) 1235(4052)(2.5) 1648(5407)(3.3)  
 RWY21- 1579(5180)(3.3)

**MILDURA**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(4)	1830 (6004)	1920 (6299) (1.93%)	1830 (6004)	1830 (6004)

RESA dimensions 120M X 90M commences from RWS end.

Transition SFC infringed.

Use of alternate start position RWY 09 requires PPR.

RWY 09 ALTERNATE declared distances:

**TORA TODA ASDA LDA**

1947 2037(1.89) 1947 1830

**SUPPLEMENTARY TKOF DISTANCES**

1967(1.6)

27	(4)	1830 (6004)	1890 (6201) (1.67%)	1830 (6004)	1830 (6004)
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RESA dimensions 90M X 90M commences from RWS end.

Transition SFC infringed.

Slope 0.1% down to E. RWY WID 45 RWS WID 300 Graded 150

18	(2)	1139 (3737)	1199 (3934) (2.51%)	1139 (3737)	1139 (3737)
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RESA dimensions 60M X 60M commences from RWS end.

Transient OBST up to 6FT ABV and 85M S of RWS end not taken into account in calculation of TODA gradient and STODA.

36	(2)	1139 (3737)	1199 (3934) (2.03%)	1139 (3737)	1139 (3737)
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RESA dimensions 60M X 60M commences from RWS end.

CAUTION: Transient OBST up to 13FT ABV and 76M N of RWS end are not taken into account in the calculation of TODA GRAD and STODA.

Slope 0.1% down to N. RWY WID 30 RWS WID 90 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09- 1850(6069)(1.6) 1916(6286)(1.9)

RWY27- 1846(6056)(1.6)

RWY18- 1006(3300)(1.6) 1097(3599)(1.9) 1156(3793)(2.2) 1198(3930)(2.5)

RWY36- 994(3261)(1.6) 1144(3753)(1.9)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY09- TKOF from TWY D; RWY remaining 987(3238) reduce all DIST by 843(2766)

RWY27- TKOF from RWY INT; RWY remaining 1463(4800) reduce all DIST by 367(1204)

RWY27- TKOF from TWY C; RWY remaining 1166(3825) reduce all DIST by 664(2178)

RWY27- TKOF from TWY D; RWY remaining 861(2825) reduce all DIST by 969(3179)

**MILES**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1590 (5216)	1650 (5413) (1.2%)	1590 (5216)	1590 (5216)
22	(2)	1590 (5216)	1650 (5413) (1.2%)	1590 (5216)	1590 (5216)

Caution unlit OBST fence at RWY 22 TODA end 2.1FT ABV RWY has not been taken into account in calculation of TODA GRAD.

Slope SW end 0.1% down to NE. NE end 0.4% down to SW. RWY WID 30 RWS WID 90 Graded 90

**MILINGIMBI**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(2)	1410 (4626)	1470 (4823) (1.76%)	1410 (4626)	1410 (4626)
		RESA dimensions 60M X 60M commences from RWS end.			
29	(2)	1410 (4626)	1470 (4823) (2.66%)	1410 (4626)	1410 (4626)
		RESA dimensions 60M X 60M commences from RWS end.			
		RWY 11/29 OBST surveys are conducted using 90M inner edge width.			
		Slope 0.4% down to SE. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1411(4629)(1.6)				
RWY29-	1016(3333)(1.6)	1200(3937)(1.9)	1330(4363)(2.2)	1426(4678)(2.5)	

**MOOMBA**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1718 (5636)	1778 (5833) (1.6%)	1718 (5636)	1718 (5636)
		RESA dimensions 90M X 60M commences from RWY end.			
		Unlit OBST fence 6FT above, 82M SE of RWS and 98M N of RCL not included in the calculation of TODA GRAD.			
30	(3)	1718 (5636)	1778 (5833) (1.57%)	1718 (5636)	1718 (5636)
		RESA dimensions 90M X 60M commences from RWY end.			
		Slope 0.34% down to SE. RWY WID 30 RWS WID 150 Graded 90			

**MORANBAH**

RWY	(CN)	TORA	TODA	ASDA	LDA
16	(3)	1524 (5000)	1649 (5410) (2.2%)	1524 (5000)	1524 (5000)
34	(3)	1524 (5000)	1649 (5410) (1.52%)	1524 (5000)	1524 (5000)
		Slope 0.8% down to NW. RWY WID 30 RWS WID 150 Graded 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY16-	1304(4278)(1.6)	1605(5266)(1.9)			
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**MORAWA**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	975 (3199)	1005 (3297) (1.58%)	975 (3199)	975 (3199)
27	(1)	975 (3199)	1005 (3297) (5.08%)	975 (3199)	975 (3199)
		Slope 0.1% down to E. RWY WID 18 RWS WID 60			
15	(2)	1350 (4429)	1410 (4626) (1.56%)	1350 (4429)	1350 (4429)
33	(2)	1350 (4429)	1410 (4626) (2.01%)	1350 (4429)	1350 (4429)
		Slope 0.67% down to SSE. RWY WID 30 RWS WID 80			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY27-	888(2913)(3.3)	1001(3284)(5.0)			
RWY33-	1260(4134)(1.6)	1357(4452)(1.9)			

**MOREE**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	1613 (5292)	1673 (5489) (3.32%)	1613 (5292)	1613 (5292)
		RWY 01 - Infrequent transient OBST not accounted for in TKOF SFC survey.			
19	(3)	1613 (5292)	1703 (5587) (1.41%)	1613 (5292)	1613 (5292)
		Slope 0.1% down to S. RWY WID 30 RWS WID 150 Graded 90			
05	(2)	977 (3205)	1037 (3402) (2.37%)	977 (3205)	977 (3205)
23	(2)	977 (3205)	1037 (3402) (1.2%)	977 (3205)	977 (3205)
		Slope 0.2% down to SW. RWY WID 23 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	1332(4370)(1.6)	1481(4859)(1.9)	1567(5141)(2.2)	1607(5272)(2.5)	1673(5489)(3.3)
RWY05-	849(2785)(1.9)	980(3215)(2.2)			

**MORNINGTON ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	1515 (4970)	1575 (5167) (2.6%)	1515 (4970)	1515 (4970)
27	(3)	1515 (4970)	1575 (5167) (1.41%)	1515 (4970)	1515 (4970)

RWY 09/27 length of TKOF and APCH inner edge 90M (non-standard).

Slope Level. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09- 1112(3648)(1.6) 1302(4272)(1.9) 1440(4724)(2.2) 1545(5069)(2.5)

**MORUYA**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	827 (2713)	887 (2910) (4.03%)	827 (2713)	827 (2713)
RESA dimensions 60M X 80M commences from RWS end.					
22	(2)	827 (2713)	887 (2910) (4.1%)	827 (2713)	827 (2713)
RESA dimensions 150M X 80M commences from RWS end.					
Slope 0.1% down to NE. RWY WID 18 RWS WID 90					
18	(3)	1523 (4997)	1583 (5194) (5.52%)	1523 (4997)	1523 (4997)
RESA dimensions 160M X 90M commences from RWS end.					
36	(3)	1523 (4997)	1583 (5194) (3.68%)	1523 (4997)	1523 (4997)

RESA dimensions 90M X 90M commences from RWS end.

Fence 6FT high parallel to and adjacent to both sides of RWS edge N end, not taken into account in calculation of TODA GRAD and STODA.

Slope Level. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04- 814(2671)(2.2) 831(2726)(2.5) 867(2844)(3.3)

RWY18- 1408(4619)(3.3) 1567(5141)(5.0)

RWY36- 843(2766)(1.6) 1084(3556)(1.9) 1252(4108)(2.2) 1372(4501)(2.5) 1537(5043)(3.3)

**MOUNT GAMBIER**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	846 (2776)	906 (2972) (3.57%)	846 (2776)	846 (2776)
24	(2)	846 (2776)	962 (3156) (4%)	846 (2776)	846 (2776)
Slope 0.3% down to SW. RWY WID 30 RWS WID 90					
11	(2)	922 (3025)	985 (3232) (4.42%)	922 (3025)	922 (3025)
RWY 11 APCH transitional SFC NE side infringed by trees.					
29	(2)	922 (3025)	982 (3222) (3.71%)	922 (3025)	922 (3025)
Slope 0.1% down to SE. RWY WID 30 RWS WID 90					
18	(3)	1644 (5394)	1704 (5590) (4.15%)	1644 (5394)	1644 (5394)
36	(3)	1644 (5394)	1704 (5590) (2.19%)	1644 (5394)	1644 (5394)

RWY 36 APCH transitional SFC infringed 10FT by trees 180M E and 155M W of RCL.

Slope 0.3% down to S. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06- 883(2897)(3.3)

RWY24- 949(3113)(3.3)

RWY11- 899(2949)(3.3)

RWY29- 877(2877)(3.3)

RWY18- 1017(3337)(1.6) 1179(3868)(1.9) 1316(4318)(2.2) 1426(4678)(2.5) 1633(5358)(3.3)

RWY36- 1161(3809)(1.6) 1496(4908)(1.9)

**MOUNT GORDON**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1170 (3839)	1230 (4035) (4%)	1170 (3839)	1170 (3839)
26	(2)	1170 (3839)	1230 (4035) (3.95%)	1170 (3839)	1170 (3839)

Slope 1.0% down to E. RWY WID 30 RWS WID 80

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	909(2982)(1.6)	986(3235)(1.9)	1047(3435)(2.2)	1099(3606)(2.5)	1201(3940)(3.3)
RWY26-	897(2943)(3.3)				

**MOUNT HOLLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1600 (5249)	1660 (5446) (3.11%)	1600 (5249)	1600 (5249)
26	(2)	1600 (5249)	1660 (5446) (3.07%)	1600 (5249)	1600 (5249)

Slope 0.33% down to E. RWY WID 30 RWS WID 140 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	1403(4603)(1.6)	1489(4885)(1.9)	1546(5072)(2.2)	1591(5220)(2.5)	
RWY26-	1163(3816)(1.9)	1447(4747)(2.2)	1581(5187)(2.5)		

**MOUNT HOTHAM**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1460 (4790)	1520 (4987) (1.73%)	1460 (4790)	1460 (4790)
		RESA dimensions 90M X 90M commences from RWY end.			
29	(3)	1460 (4790)	1520 (4987) (4.94%)	1460 (4790)	1460 (4790)
		RESA dimensions 90M X 90M commences from RWY end.			

Slope 0.7% down to E. RWY WID 30 RWS WID 90 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1484(4869)(1.6)				
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**MOUNT ISA**

RWY	(CN)	TORA	TODA	ASDA	LDA
16	(4)	2560 (8399)	2620 (8596) (2.67%)	2560 (8399)	2560 (8399)
		Parallel fence 4.4FT ABV and 3M FM RWY strip end and 87M left of extended RCL at the SE end has not been taken into account in the calculation of TODA MNM required climb gradient and supplementary TKOF DIST.			
34	(4)	2560 (8399)	2620 (8596) (2.57%)	2560 (8399)	2560 (8399)

APCH inner edge width 150M.

Slope 510M S end 0.1% down to S, 2050M N end 0.15% down to N. RWY WID 45 RWS WID 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY16-	1192(3911)(1.9)	2352(7716)(2.2)	2579(8461)(2.5)		
RWY34-	1638(5374)(2.2)	2465(8087)(2.5)			

**MOUNT KEITH**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1797 (5896)	1860 (6102) (2.94%)	1797 (5896)	1797 (5896)
		RESA dimensions 90M X 60M commences from RWS end.			
29	(3)	1797 (5896)	1860 (6102) (3.4%)	1797 (5896)	1797 (5896)
		RESA dimensions 90M X 60M commences from RWS end.			

1. TKOF SFC infringed by boundary fence 8FT AGL, offset 85M FM CL.

2. APCH RWY survey area, RWY 11/29 APCH inner edge length 150M.

Slope 0.32% down to E. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1764(5787)(1.6)	1799(5902)(1.9)	1825(5987)(2.2)	1843(6047)(2.5)	
RWY29-	1571(5154)(1.6)	1667(5469)(1.9)	1732(5682)(2.2)	1779(5837)(2.5)	1855(6086)(3.3)



**MOUNT MAGNET**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	900 (2953)	960 (3150) (1.2%)	900 (2953)	900 (2953)
Fence 989M FM RWY 04 SOT and 5FT AGL.					
22	(1)	900 (2953)	960 (3150) (1.2%)	900 (2953)	900 (2953)
Slope 0.25% down to SW. RWY WID 30 RWS WID 90					
16	(3)	1800 (5905)	1860 (6102) (1.41%)	1800 (5905)	1800 (5905)
RESA dimensions 90M X 60M commences from RWS end.					
34	(3)	1800 (5905)	1860 (6102) (1.9%)	1800 (5905)	1800 (5905)
RESA dimensions 90M X 60M commences from RWS end.					
APCH SFC inner edge 150M.					
Slope 0.5% down to S. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY34- 1775(5823)(1.6) 1858(6096)(1.9)

**MUDGE E**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1739 (5705)	1799 (5902) (4.93%)	1739 (5705)	1739 (5705)
RESA dimensions 60M X 90M commences from RWY end.					
Lit fence 5.5FT ABV at RWS end not taken into account in the calculation of TODA, GRAD, and STODA.					
22	(3)	1739 (5705)	1799 (5902) (6.11%)	1739 (5705)	1739 (5705)
RESA dimensions 60M X 90M commences from RWY end.					
Fence 6.3FT ABV and 3M SW of RWS end not taken into account in the calculation of TODA, GRAD and STODA.					
Slope 0.6% down to SW. RWY WID 30 RWS WID 90					
16	(2)	1075 (3527)	1135 (3724) (3.16%)	1075 (3527)	1075 (3527)
34	(2)	1075 (3527)	1135 (3724) (2.99%)	1075 (3527)	1075 (3527)
Slope 0.4% down to S. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04- 1497(4911)(2.2) 1567(5141)(2.5) 1681(5515)(3.3)  
 RWY16- 919(3015)(1.9) 999(3278)(2.2) 1044(3425)(2.5)  
 RWY34- 810(2657)(2.2) 953(3127)(2.5)

**MURRIN MURRIN**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	2000 (6562)	2060 (6758) (1.35%)	2000 (6562)	2000 (6562)
21	(3)	2000 (6562)	2060 (6758) (1.62%)	2000 (6562)	2000 (6562)
Slope 0.10% down to N. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY21- 2051(6729)(1.6)

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**NARACORTE**

RWY	(CN)	TORA	TODA	ASDA	LDA
02	(2)	1337 (4386)	1397 (4583) (3.99%)	1337 (4386)	1337 (4386)
20	(2)	1337 (4386)	1397 (4583) (1.89%)	1337 (4386)	1337 (4386)
Slope 0.1% down to S. RWY WID 23 RWS WID 90					
08	(2)	1048 (3438)	1121 (3678) (3.54%)	1048 (3438)	1048 (3438)
26	(2)	1048 (3438)	1108 (3635) (1.22%)	1048 (3438)	1048 (3438)
APCH SFC 3.3% OBST clear APCH SFC LDG RWY 26 terminates at THR not RWS end. Slope 0.1% down to W. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY02-	979(3212)(2.2)	1095(3592)(2.5)	1309(4295)(3.3)
RWY08-	1050(3445)(3.3)		

**NARRABRI**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	800 (2625)	860 (2821) (5%)	800 (2625)	800 (2625)
27	(1)	800 (2625)	860 (2821) (1.2%)	800 (2625)	800 (2625)
Slope 1.3% down to W. RWY WID 30 RWS WID 90					
18	(3)	1765 (5791)	1825 (5987) (2.01%)	1765 (5791)	1765 (5791)
RESA dimensions 240M X 90M commences from RWS end. Fence 7.3FT ABV and PARL to RWY 91M E of RCL and fence 6.6FT ABV and PARL to RWY, 86M E of RCL not taken into account in the calculation of TODA gradient and STODA.					
36	(3)	1765 (5791)	1825 (5987) (2.8%)	1765 (5791)	1765 (5791)
RESA dimensions 240M X 90M commences from RWS end. Slope 1.35% down to S for first 377M, 0.4% down to S for next 547M, then 0.9% for remainder. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	1572(5157)(1.6)	1770(5807)(1.9)	
RWY36-	1313(4308)(1.6)	1619(5312)(1.9)	1736(5695)(2.2) 1791(5876)(2.5)

**NARRANDERA**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1020 (3346)	1190 (3904) (2.62%)	1130 (3707)	900 (2953)
RWY 05 DTHR 120M.					
23	(2)	1020 (3346)	1080 (3543) (5.09%)	1020 (3346)	1020 (3346)
Slope 0.1% down to NE. RWY WID 30 RWS WID 90					
14	(3)	1610 (5282)	1826 (5991) (5.19%)	1766 (5794)	1610 (5282)
RESA dimensions 216M X 90M commences from RWY end.					
32	(3)	1610 (5282)	1670 (5479) (1.34%)	1610 (5282)	1610 (5282)
RESA dimensions 60M X 90M commences from RWY end. Turning nodes at both ends and 540M from THR RWY 14. WID 45. Slope 0.1% down to NW. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	875(2871)(1.9)	1034(3392)(2.2)	1151(3776)(2.5)
RWY23-	865(2838)(3.3)	1074(3524)(5.0)	
RWY14-	1090(3576)(1.6)	1322(4337)(1.9)	1486(4875)(2.2) 1610(5282)(2.5) 1711(5613)(3.3)
	1818(5964)(5.0)		

**NARROMINE**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1100 (3609)	1160 (3806) (2.89%)	1100 (3609)	1013 (3323)
RWY 04 DTHR 87M (285FT).					
22	(2)	1100 (3609)	1160 (3806) (6.64%)	1100 (3609)	1100 (3609)
Slope Level. RWY WID 30 RWS WID 90					
11	(3)	1521 (4990)	1581 (5187) (12.79%)	1521 (4990)	1521 (4990)
CAUTION: Sign 9.4FT ABV and 12M E of RWS end is not taken into account in determining TODA GRAD and STODA.					
29	(3)	1521 (4990)	1581 (5187) (1.8%)	1521 (4990)	1263 (4144)
RWY 29 DTHR 258M (846FT).					
Slope 0.1% down to W. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	931(3054)(2.2)	1044(3425)(2.5)			
RWY22-	845(2772)(2.5)	1061(3481)(3.3)	1139(3737)(5.0)		
RWY11-	870(2854)(2.2)	1068(3504)(2.5)	1359(4459)(3.3)	1462(4797)(5.0)	
RWY29-	1482(4862)(1.6)				

**NEWMAN**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	2072 (6798)	2132 (6995) (1.39%)	2072 (6798)	2072 (6798)
RESA dimensions 60M X 90M commences from RWY end.					
Transitional SFC infringed by 40FT by flood lights BTN 976M and 1,250M FM RWY 05 SOT 234M L OF RCL.					
23	(3)	2072 (6798)	2132 (6995) (1.94%)	2072 (6798)	2072 (6798)
RESA dimensions 60M X 90M commences from RWY end.					
Slope 0.1% down to NE. RWY WID 30 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY23-	1897(6224)(1.6)	2111(6926)(1.9)			
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**NGUKURR**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(2)	1530 (5020)	1590 (5216) (2.87%)	1530 (5020)	1530 (5020)
29	(2)	1530 (5020)	1590 (5216) (1.96%)	1530 (5020)	1530 (5020)
Slope 0.3% down to E. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1284(4213)(1.6)	1388(4554)(1.9)	1467(4813)(2.2)	1529(5016)(2.5)	
RWY29-	1492(4895)(1.6)	1575(5167)(1.9)			

**NHILL**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(2)	1000 (3281)	1060 (3478) (3.12%)	1000 (3281)	1000 (3281)
27	(2)	1000 (3281)	1060 (3478) (2.13%)	1000 (3281)	1000 (3281)
Slope 0.8% down to W. RWY WID 18 RWS WID 90					
18	(1)	1102 (3615)	1162 (3812) (2.62%)	1102 (3615)	1102 (3615)
36	(1)	1102 (3615)	1162 (3812) (2.8%)	1102 (3615)	1102 (3615)
Slope 0.5% down to S. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	906(2972)(2.5)				
RWY27-	880(2887)(1.6)	977(3205)(1.9)			
RWY18-	1005(3297)(1.6)	1040(3412)(1.9)	1094(3589)(2.2)	1144(3753)(2.5)	
RWY36-	820(2690)(2.2)	974(3195)(2.5)			

**NIFTY**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	2039 (6690)	2099 (6886) (1.2%)	2039 (6690)	2039 (6690)
RESA dimensions 90M X 90M commences from RWY end.					
30	(3)	2039 (6690)	2099 (6886) (2.51%)	2039 (6690)	2039 (6690)
RESA dimensions 90M X 90M commences from RWY end.					
Slope Level. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY30- 2008(6588)(1.6) 2048(6719)(1.9) 2076(6811)(2.2) 2098(6883)(2.5)

**NORFOLK ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1435 (4708)	1495 (4905) (3.45%)	1435 (4708)	1435 (4708)
22	(2)	1435 (4708)	1495 (4905) (2.45%)	1435 (4708)	1435 (4708)
RWY 04/22 APCH & TKOF survey conducted using 90M inner edge WID.					
Slope 0.9% down to SW. RWY WID 30 RWS WID 90					
11	(4)	1950 (6398)	2010 (6594) (1.6%)	1950 (6398)	1890 (6201)
29	(4)	1950 (6398)	2010 (6594) (1.33%)	1950 (6398)	1890 (6201)

RESA dimensions 78M X 64M commences from RWY end.

TKOF run commences at end starter extension for both directions, 60M beyond THR at either RWY end.

Slope 0.7% down to W. RWY WID 45 RWS WID 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04- 979(3212)(2.2) 1176(3858)(2.5) 1462(4797)(3.3)

RWY22- 1360(4462)(1.6) 1443(4734)(1.9) 1483(4865)(2.2)

**NORMANTON**

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	1676 (5499)	1736 (5695) (2.3%)	1676 (5499)	1676 (5499)
RESA dimensions 150M X 60M commences from RWY end.					
1. Unlit OBST fence 7.5FT ABV and 20M SE of RWS end has not been taken into account in calculation of TODA GRAD and STODA.					
2. 3.33% OBST CLR APCH SFC LDG RWY 14 terminates at THR, not RWS end.					
32	(3)	1676 (5499)	1736 (5695) (1.91%)	1676 (5499)	1676 (5499)

RESA dimensions 80M X 60M commences from RWY end.

1. Unlit OBST fence 6.5FT ABV and 35M N of RWS end has not been taken into account in calculation of TODA GRAD and STODA.

2. 3.33% OBST CLR APCH SFC LDG RWY 32 terminates at THR, not RWS end.

Slope 0.8% down to NW. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14- 1611(5285)(1.6) 1683(5522)(1.9) 1725(5659)(2.2)

RWY32- 1668(5472)(1.6) 1735(5692)(1.9)

**NORTHERN PENINSULA**

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(3)	1834 (6017)	1894 (6214) (2.92%)	1834 (6017)	1834 (6017)
RESA dimensions 90M X 90M commences from RWY end. TKOF inner edge infringed by fence 1894M FM RWY 13 SOT 1FT ABV CWY (19FT AMSL) and 76M L of CL fence 1894M FM RWY 13 SOT 10FT ABV CWY (28FT AMSL) and 72M R of CL.					
31	(3)	1834 (6017)	1894 (6214) (3.32%)	1834 (6017)	1834 (6017)
RESA dimensions 60M X 90M commences from RWY end. 1. Transitional SFC infringed by terrain, apron LGT and IW1 on W side. 2. Transitional SFC infringed by trees on each side at S end. 3. RWY 13/31 APCH inner edge length 150M. 4. RWY 13/31 TKOF inner edge length 180M. Slope 0.3% down to SE. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY13-	1518(4980)(1.6)	1652(5420)(1.9)	1753(5751)(2.2)	1833(6014)(2.5)
RWY31-	1155(3789)(2.2)	1441(4728)(2.5)	1885(6184)(3.3)	

**NOVA**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	2000 (6562)	2060 (6758) (2.69%)	2000 (6562)	2000 (6562)
RESA dimensions 90M X 60M commences from RWS end.					
24	(3)	2000 (6562)	2060 (6758) (2.45%)	2000 (6562)	2000 (6562)
RESA dimensions 90M X 60M commences from RWS end. RWY 06/24 APCH inner edge length 150M. Slope 0.46% down to NE. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1734(5689)(1.6)	1853(6079)(1.9)	1946(6384)(2.2)	2020(6627)(2.5)
RWY24-	1814(5951)(1.6)	1937(6355)(1.9)	2013(6604)(2.2)	

**NOWRA**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(MIL)	2046 (6713)	2106 (6909) (6.98%)	2046 (6713)	2046 (6713)
21	(MIL)	2046 (6713)	2106 (6909) (6.85%)	2046 (6713)	2046 (6713)
TKOF/Climb SFC inner edge WID 180. Slope down 0.8% to NE to 450M, then down 0.2% to 650M, then up 0.3% to 850M, then up 0.9% to 1850M, then up 0.4% to RWY end. RWY WID 45 RWS WID 230					
08	(MIL)	2094 (6870)	2154 (7067) (159.66%)	2094 (6870)	2094 (6870)
26	(MIL)	2094 (6870)	2154 (7067) (9.71%)	2094 (6870)	2003 (6571)
1. RWY 26 DTHR 91M. 2. TKOF/Climb SFC inner edge WID 180M. 3. RWS WID RWY 08/26 southern side at start of RWY 26 reduced due perimeter road. RWS WID 58M FM RWY CL (south side) for first 50M, remainder unchanged. 4. CAUTION: Transitional SFC at E end RWY 08/26 may be infringed by transient vehicles. 5. CRITICAL OBSTACLES: WIP REF trees, CTC AD OPR for current status. Slope down 2.5% to E to 400M, then down 0.7% to 1200M, then down 0.4% to 1500M, then up 0.3% to 1650M, then up 1.0% to RWY end. RWY WID 45 RWS WID 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	802(2631)(1.6)	1122(3681)(1.9)	1204(3950)(2.0)	1342(4403)(2.2)	1501(4924)(2.5)
	1772(5814)(3.3)	2023(6637)(5.0)			
RWY21-	1063(3487)(2.0)	1336(4383)(2.2)	1551(5089)(2.5)	1847(6060)(3.3)	2007(6585)(5.0)
RWY08-	1981(6499)(1.6)	2002(6568)(1.9)	2008(6588)(2.0)	2019(6624)(2.2)	2033(6670)(2.5)
	2058(6752)(3.3)	2088(6850)(5.0)			
RWY26-	971(3186)(2.5)	1521(4990)(3.3)	1862(6109)(5.0)		

**NUMBULWAR**

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(2)	1320 (4331)	1380 (4528) (2.14%)	1320 (4331)	1320 (4331)
33	(2)	1320 (4331)	1380 (4528) (1.2%)	1320 (4331)	1320 (4331)

Slope 0.2% down to NW. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY15- 1303(4275)(1.6) 1351(4432)(1.9)

**NYNGAN**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1643 (5390)	1703 (5587) (4.3%)	1643 (5390)	1643 (5390)
23	(3)	1643 (5390)	1703 (5587) (3.19%)	1643 (5390)	1643 (5390)

Slope Level. RWY WID 30 RWS WID 150 Graded 90

18	(2)	1065 (3494)	1125 (3691) (3.03%)	1065 (3494)	1065 (3494)
36	(2)	1065 (3494)	1125 (3691) (3.13%)	1065 (3494)	1065 (3494)

Slope Level. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05- 1256(4121)(1.6) 1437(4715)(1.9) 1556(5105)(2.2) 1648(5407)(2.5) 1695(5561)(3.3)

RWY23- 1084(3556)(1.6) 1321(4334)(1.9) 1466(4810)(2.2) 1570(5151)(2.5)

RWY18- 981(3218)(2.2) 1117(3665)(2.5)

RWY36- 1054(3458)(1.6) 1077(3533)(1.9) 1094(3589)(2.2) 1106(3629)(2.5)

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**OAKLEY**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(MIL)	914 (2999)	974 (3195) (2.42%)	914 (2999)	914 (2999)
23	(MIL)	914 (2999)	974 (3195) (1.36%)	914 (2999)	914 (2999)
1. TKOF/Climb SFC overall length 2,500M.					
2. TKOF/Climb SFC inner edge WID 80M.					
Slope 0.19% down to SW. RWY WID 23 RWS WID 90					
09	(MIL)	1089 (3573)	1149 (3770) (1.8%)	1089 (3573)	1089 (3573)
27	(MIL)	1089 (3573)	1149 (3770) (2.45%)	1089 (3573)	1089 (3573)
1. TKOF/Climb SFC overall length 2,500M.					
2. TKOF/Climb SFC inner edge WID 80M.					
Slope 0.26% down to W. RWY WID 23 RWS WID 90					
14	(MIL)	1649 (5410)	1709 (5607) (2.97%)	1649 (5410)	1649 (5410)
1. RWY 14 2% SUPP GRAD - 1637(5370)					
2. RWY 14 5400 FT (H24).					
32	(MIL)	1707 (5600)	1767 (5797) (1.35%)	1707 (5600)	1707 (5600)
1. RWY 32 reduced to 5,400FT (HN).					
2. TKOF/Climb SFC inner edge WID 180.					
3. Extra pavement 58M included in AVBL RWY 32 TORA.					
4. TKOF/climb SFC overall length 15,000M.					
Slope 0.02% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	802(2631)(1.9)	844(2769)(2.0)	915(3002)(2.2)		
RWY09-	1131(3711)(1.6)				
RWY27-	944(3097)(1.9)	988(3241)(2.0)	1065(3494)(2.2)		
RWY14-	1212(3976)(1.9)	1633(5358)(2.0)	1654(5426)(2.2)	1680(5512)(2.5)	

**OENPELLI**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(2)	1320 (4331)	1380 (4528) (2.38%)	1320 (4331)	1320 (4331)
30	(2)	1320 (4331)	1380 (4528) (2.44%)	1320 (4331)	1320 (4331)
Slope 0.2% down to NW, 0.7% down to SE. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	1160(3806)(1.6)	1263(4144)(1.9)	1340(4396)(2.2)		
RWY30-	1285(4216)(1.6)	1327(4354)(1.9)	1359(4459)(2.2)		

**OLYMPIC DAM**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(3)	1860 (6102)	1920 (6299) (3.23%)	1860 (6102)	1860 (6102)
RESA dimensions 90M X 90M commences from RWY end.					
25	(3)	1860 (6102)	1920 (6299) (1.86%)	1860 (6102)	1860 (6102)
RESA dimensions 90M X 90M commences from RWY end.					
TNS infringed by trees north side.					
Slope E end 400M 0.6% down to W, W end 0.5% down to E. RWY WID 30 RWS WID 150					
Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	1379(4524)(1.6)	1539(5049)(1.9)	1678(5505)(2.2)	1777(5830)(2.5)	
RWY25-	1450(4757)(1.6)				

**ON SLOW**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	1900 (6234)	1960 (6430) (2%)	1900 (6234)	1900 (6234)
21	(3)	1900 (6234)	1960 (6430) (1.65%)	1900 (6234)	1900 (6234)

Slope 0%. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	1436(4711)(1.6)	1850(6069)(1.9)
RWY21-	1956(6417)(1.6)	

**ORANGE**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	964 (3163)	1024 (3360) (5.28%)	964 (3163)	964 (3163)
22	(1)	964 (3163)	1024 (3360) (3.52%)	964 (3163)	964 (3163)

Slope 0.9% down to NE. RWY WID 30 RWS WID 90

11	(3)	2213 (7260)	2335 (7661) (2.17%)	2213 (7260)	2213 (7260)
29	(3)	2213 (7260)	2273 (7457) (3.3%)	2213 (7260)	2213 (7260)

Slope 0.2% down to W. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	841(2759)(2.5)	943(3094)(3.3)	1011(3317)(5.0)
RWY22-	962(3156)(3.3)		
RWY11-	2116(6942)(1.6)	2261(7418)(1.9)	
RWY29-	1653(5423)(1.6)	1883(6178)(1.9)	2000(6562)(2.2) 2096(6877)(2.5)

**ORBOST**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(2)	1140 (3740)	1200 (3937) (2.87%)	1140 (3740)	1140 (3740)

RESA dimensions 120M X 90M commences from RWY end.

25	(2)	1140 (3740)	1200 (3937) (2.85%)	1140 (3740)	1140 (3740)
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RESA dimensions 60M X 90M commences from RWY end.  
Slope 0.4% down to E. RWY WID 18 RWS WID 90 Graded 80

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	986(3235)(1.9)	1135(3724)(2.2)	1191(3907)(2.5)
RWY25-	936(3071)(2.2)	1083(3553)(2.5)	

**OSBORNE MINE**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	2000 (6562)	2060 (6758) (2.79%)	2000 (6562)	2000 (6562)

RESA dimensions 90M X 60M commences from RWY end.

30	(3)	2000 (6562)	2060 (6758) (2.29%)	2000 (6562)	2000 (6562)
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RESA dimensions 90M X 60M commences from RWY end.  
Slope 0.58% down to SE. RWY WID 23 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	1710(5610)(1.6)	1802(5912)(1.9)	1895(6217)(2.2)	1987(6519)(2.5)
RWY30-	1919(6296)(1.6)	2007(6585)(1.9)	2050(6726)(2.2)	

**PALM ISLAND**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
14	(2)	1137 (3730)	1197 (3927) (3.24%)	1137 (3730)	1137 (3730)
32	(2)	1137 (3730)	1197 (3927) (1.2%)	1137 (3730)	1137 (3730)

Transitional SFC infringed by trees on SW side by up to 6FT and by IWI and terrain on NE side.

Slope 0.4% down to NW, and 0.8% down to SE from RWY centre. RWY WID 18 RWS WID 80

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14- 1185(3888)(1.6) 1188(3898)(1.9) 1191(3907)(2.2) 1193(3914)(2.5)

**PARABURDOO**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
06	(4)	2132 (6995)	2192 (7192) (1.77%)	2132 (6995)	2132 (6995)
24	(4)	2132 (6995)	2192 (7192) (1.2%)	2132 (6995)	2132 (6995)

RWY 06/24 length of approach inner edge 280M.

Slope 0.45% down to SW. RWY WID 45 RWS WID 280

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06- 2172(7126)(1.6)

**PARKES**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
04	(3)	1684 (5525)	1744 (5722) (2.22%)	1684 (5525)	1684 (5525)
		RESA dimensions 98M X 30M commences from RWY end.			
22	(3)	1684 (5525)	1744 (5722) (3.76%)	1684 (5525)	1684 (5525)
		RESA dimensions 98M X 30M commences from RWY end.			
		Slope 0.7% down to SW. RWY WID 30 RWS WID 150 Graded 150			
11	(2)	1623 (5325)	1683 (5522) (4.05%)	1623 (5325)	1623 (5325)

RESA dimensions 91M X 30M commences from RWY end.

CAUTION: Fence 5.8FT ABV and 20M from RWS end is not taken into account in the calculation of TODA GRAD and STODA.

29	(2)	1623 (5325)	1683 (5522) (2.44%)	1623 (5325)	1450 (4757)
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RESA dimensions 110M X 30M commences from RWY end.

RWY 29 DTHR 173M (567FT).

Slope 0.7% down to W. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04- 1145(3757)(1.9) 1726(5663)(2.2)

RWY22- 1258(4127)(1.6) 1373(4505)(1.9) 1469(4819)(2.2) 1543(5062)(2.5) 1680(5512)(3.3)

RWY11- 1335(4380)(3.3)

RWY29- 1377(4518)(1.6) 1565(5134)(1.9) 1628(5341)(2.2)

**PEARCE**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(MIL)	1691 (5548)	1751 (5745) (6.75%)	1691 (5548)	1691 (5548)
23	(MIL)	1691 (5548)	1751 (5745) (6.58%)	1691 (5548)	1691 (5548)

1. CWY RWY 05 and RWY 23 60M. SWY both RWY nil.

2. TKOF/CLIMB SFC inner edge WID 180M.

Slope 0.64% down to SW. RWY WID 45 RWS WID 230

18L	(MIL)	2974 (9757)	3034 (9954) (0%)	2974 (9757)	2439 (8002)
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RWY 18L DTHR 535M.

36R	(MIL)	2974 (9757)	3034 (9954) (0%)	2974 (9757)	2974 (9757)
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1. CWY RWY 18L and RWY 36R 60M. SWY both RWY nil.

2. TKOF/CLIMB SFC inner edge WID 180M.

3. TODA gradient not provided due arrestor barrier forming an obstruction in the CWY.

Slope 0.23% up to S to 594M then, 0.55% up to 1437M, then down 0.45% to RWY end. RWY

WID 45 RWS WID 280 Graded 180

18R	(MIL)	1741 (5712)	1801 (5909) (0%)	1801 (5909)	1741 (5712)
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Refer AD OPR for TODA GRAD details.

36L	(MIL)	1741 (5712)	1801 (5909) (0%)	1801 (5909)	1741 (5712)
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Refer AD OPR for TODA GRAD details.

Slope 0.35% down to S. Exists WI RWS 18L/36R. RWY WID 30

**SUPPLEMENTARY TAKEOFF DISTANCES**

**ARRESTOR BARRIER ERECTED (Net Poles 21FT AGL)**

RWY 18L	2477(8128)(1.6%)	2593(8506)(1.9%)	2621(8599)(2.0%)	2668(8754)(2.2%)
	2722(8930)(2.5%)	2809(9217)(3.3%)	2893(9493)(5.0%)	
RWY 36R	2477(8128)(1.6%)	2593(8506)(1.9%)	2621(8599)(2.0%)	2668(8754)(2.2%)
	2722(8930)(2.5%)	2809(9217)(3.3%)	2893(9493)(5.0%)	

**ARRESTOR BARRIER RETRACTED (Net Poles 5FT AGL)**

RWY 18L	2901(9519)(1.6%)	2929(9609)(1.9%)	2936(9631)(2.0%)	2947(9668)(2.2%)
	2960(9710)(2.5%)	2981(9779)(3.3%)	3001(9844)(5.0%)	
RWY 36R	2520(8267)(1.6%)	2785(9136)(1.9%)	2853(9360)(2.0%)	2947(9668)(2.2%)
	2960(9710)(2.5%)	2981(9779)(3.3%)	3001(9844)(5.0%)	

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	1658(5440)(5.0)			
RWY23-	1320(4331)(1.6)	1393(4570)(1.9)	1413(4636)(2.0)	1450(4757)(2.2) 1497(4911)(2.5)
	1586(5203)(3.3)	1692(5551)(5.0)		

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY18L-	TKOF from INT RWYRWY remaining 1875(6152)	reduce all DIST by 1099(3606) 05/23;
RWY18L-	TKOF from TWY A3; RWY remaining 2439(8002)	reduce all DIST by 535(1755)
RWY18L-	TKOF from TWY D2; RWY remaining 1632(5354)	reduce all DIST by 1342(4403)
RWY36R-	TKOF from TWY C1; RWY remaining 2324(7625)	reduce all DIST by 650(2133)
RWY36R-	TKOF from TWY E1; RWY remaining 1685(5528)	reduce all DIST by 1289(4229)

**PERTH**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(4)	3444 (11299)	3504 (11496) (2.04%)	3444 (11299)	3444 (11299)
RESA dimensions 90M X 90M commences from RWS end.					
21	(4)	3444 (11299)	3644 (11955) (2.75%)	3444 (11299)	3444 (11299)
RESA dimensions 90M X 90M commences from RWS end.					
1. RWY 03/21: Transitional SFC infringed W side 300M FM RWY 03 THR. OBST is illuminated WDI 94FT AMSL.					
2. OLS extensively infringed by terrain E of AD.					
Slope 0.2% down to N. RWY WID 45 RWS WID 300 Graded 150					
06	(4)	2163 (7096)	2224 (7296) (2.39%)	2163 (7096)	2163 (7096)
RESA dimensions 90M X 90M commences from RWS end.					
24	(4)	2163 (7096)	2224 (7296) (2.29%)	2163 (7096)	2163 (7096)
RESA dimensions 90M X 90M commences from RWS end.					
OLS extensively infringed by terrain E of AD.					
Slope from THR to 0.1% down to centre. RWY WID 45 RWS WID 300 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	3353(11001)(1.6)	3465(11368)(1.9)			
RWY21-	3353(11001)(1.6)	3544(11627)(1.9)	3627(11899)(2.2)	3637(11932)(2.5)	
RWY06-	1332(4370)(2.2)				
RWY24-	1736(5695)(1.6)	2024(6640)(1.9)	2185(7169)(2.2)		

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY03-	TKOF from TWY A7;	RWY remaining 2035(6676)	reduce all DIST by 1409(4623)
RWY03-	TKOF from TWY A9;	RWY remaining 2535(8317)	reduce all DIST by 909(2982)
RWY03-	TKOF from TWY C9;	RWY remaining 2535(8317)	reduce all DIST by 909(2982)
RWY21-	TKOF from TWY D;	RWY remaining 2680(8793)	reduce all DIST by 764(2507)
RWY06-	TKOF from TWY J1;	RWY remaining 1819(5968)	reduce all DIST by 344(1129)

**PERTH/JANDAKOT**

RWY	(CN)	TORA	TODA	ASDA	LDA
06L	(2)	1392 (4567)	1452 (4764) (2.37%)	1392 (4567)	1274 (4180)
RESA dimensions 60M X 90M commences from RWY end.					
1. RWY 06L DTHR 118M (387FT).					
2. APCH inner edge length 90M.					
24R	(2)	1392 (4567)	1452 (4764) (2.84%)	1392 (4567)	1246 (4088)
RESA dimensions 60M X 90M commences from RWY end.					
1. RWY 24R DTHR 146M (479FT).					
2. APCH inner edge length 90M.					
Slope Level. RWY WID 30 RWS WID 90					
06R	(1)	1150 (3773)	1210 (3970) (3.47%)	1150 (3773)	1150 (3773)
24L	(1)	1150 (3773)	1324 (4344) (2.46%)	1150 (3773)	1150 (3773)
Slope Level. RWY WID 18 RWS WID 90					
12	(2)	1508 (4947)	1568 (5144) (1.86%)	1508 (4947)	1508 (4947)
APCH inner edge length 90M.					
30	(2)	1508 (4947)	1568 (5144) (3.21%)	1508 (4947)	1508 (4947)
RESA dimensions 60M X 90M commences from RWY end.					
APCH inner edge length 90M.					
Slope Level. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06L-	1246(4088)(1.6)	1346(4416)(1.9)	1418(4652)(2.2)		
RWY24R-	951(3120)(1.9)	1156(3793)(2.2)	1311(4301)(2.5)		
RWY06R-	813(2667)(1.6)	929(3048)(1.9)	1014(3327)(2.2)	1078(3537)(2.5)	1192(3911)(3.3)
RWY24L-	846(2776)(1.6)	1157(3796)(1.9)	1257(4124)(2.2)		
RWY12-	1493(4898)(1.6)				
RWY30-	822(2697)(1.9)	1071(3514)(2.2)	1260(4134)(2.5)		

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY06L-	TKOF from TWY B1;	RWY remaining 1265(4150)	reduce all DIST by 127(417)
RWY06L-	TKOF from TWY B2;	RWY remaining 970(3182)	reduce all DIST by 422(1384)
RWY24R-	TKOF from TWY B4;	RWY remaining 1025(3363)	reduce all DIST by 360(1181)
RWY24R-	TKOF from TWY B5;	RWY remaining 1240(4068)	reduce all DIST by 145(476)
RWY06R-	TKOF from TWY G;	RWY remaining 1085(3560)	reduce all DIST by 65(213)
RWY30-	TKOF from TWY K3;	RWY remaining 990(3248)	reduce all DIST by 518(1699)
RWY30-	TKOF from TWY S4;	RWY remaining 990(3248)	reduce all DIST by 518(1699)

**PETERBOROUGH/GREAT OCEAN ROAD**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(1)	1142 (3747)	1202 (3944) (4.53%)	1142 (3747)	1142 (3747)
		RESA dimensions 60M X 90M commences from SWY end.			
26	(1)	1142 (3747)	1202 (3944) (4.47%)	1142 (3747)	1142 (3747)
		RESA dimensions 60M X 90M commences from SWY end.			
		Slope 1.9% down to W. RWY WID 30 RWS WID 90 Graded 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	1127(3697)(2.2)	1157(3796)(2.5)	1184(3884)(3.3)
RWY26-	1104(3622)(1.6)	1118(3668)(1.9)	1130(3707)(2.2) 1140(3740)(2.5) 1174(3852)(3.3)

**PLUTONIC**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(3)	2069 (6788)	2129 (6985) (3.38%)	2069 (6788)	2069 (6788)
25	(3)	2069 (6788)	2129 (6985) (1.5%)	2069 (6788)	2069 (6788)
		1. APCH SFC inner edge 90M. TKOF SFC inner edge 180M.			
		Slope 0.49% down to W. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	1587(5207)(1.6)	1735(5692)(1.9)	1849(6066)(2.2)	1941(6368)(2.5)	2114(6936)(3.3)
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**POINT COOK**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1135 (3724)	1195 (3921) (3.33%)	1135 (3724)	1135 (3724)
22	(2)	1135 (3724)	1195 (3921) (2.28%)	1135 (3724)	1135 (3724)
		Slope Level. RWY WID 45 RWS WID 150			
08	(2)	1066 (3497)	1126 (3694) (5.81%)	1066 (3497)	1066 (3497)
26	(2)	1066 (3497)	1126 (3694) (4.16%)	1066 (3497)	1066 (3497)
		Slope Level. RWY WID 45 RWS WID 150			
17	(3)	1371 (4498)	1431 (4695) (4.2%)	1371 (4498)	1371 (4498)
35	(3)	1371 (4498)	1431 (4695) (3.34%)	1371 (4498)	1371 (4498)

1. RWY 17: CAUTION: 3.3% OBST clear APCH SFC LDG RWY 17 terminates at THR not RWS end.

2. RWY 35: CAUTION: Fence 3.1FT ABV and 15M N of RWS end at RCL is not taken into account in the calculation of TODA GRAD and STODA.

Slope Level. RWY WID 45 RWS WID 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	962(3156)(1.6)	1032(3386)(1.9)	1084(3556)(2.2)	1123(3684)(2.5)	1193(3914)(3.3)
RWY22-	1005(3297)(1.6)	1101(3612)(1.9)	1178(3865)(2.2)		
RWY08-	972(3189)(1.6)	1003(3291)(1.9)	1027(3369)(2.2)	1044(3425)(2.5)	1080(3543)(3.3)
	1116(3661)(5.0)				
RWY26-	806(2644)(2.5)	1005(3297)(3.3)			
RWY17-	1334(4377)(1.6)	1357(4452)(1.9)	1374(4508)(2.2)	1389(4557)(2.5)	1415(4642)(3.3)
RWY35-	979(3212)(1.9)	1136(3727)(2.2)	1244(4081)(2.5)	1430(4692)(3.3)	

**POONCARIE**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(1)	1053 (3455)	1113 (3652) (2.07%)	1053 (3455)	1053 (3455)
24	(1)	1053 (3455)	1113 (3652) (3.76%)	1053 (3455)	1053 (3455)

Slope 0.2% down to NE. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1014(3327)(1.6)	1085(3560)(1.9)			
RWY24-	800(2625)(1.9)	889(2917)(2.2)	958(3143)(2.5)	1075(3527)(3.3)	

**PORMPURA AW**

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(2)	1360 (4462)	1600 (5249) (2.42%)	1360 (4462)	1360 (4462)
32	(2)	1360 (4462)	1420 (4659) (1.91%)	1360 (4462)	1360 (4462)

Approach and TKOF inner edge WID 90M non standard.

Slope Level. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14-	1418(4652)(1.6)	1506(4941)(1.9)	1565(5134)(2.2)		
RWY32-	1365(4478)(1.6)	1417(4649)(1.9)			

**PORT AUGUSTA**

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(3)	1650 (5413)	1710 (5610) (1.69%)	1650 (5413)	1650 (5413)
33	(3)	1650 (5413)	1710 (5610) (2.96%)	1650 (5413)	1650 (5413)

TKOF RWY 33 OBST mound 5FT ABV and 48M N of RWS end not taken into account in determination of TODA, GRAD and STODA.

Slope NW end 510M 0.88% down to SE, SE end 1140M level. RWY WID 30 RWS WID 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY15-	1698(5571)(1.6)				
RWY33-	1580(5184)(1.6)	1641(5384)(1.9)	1674(5492)(2.2)	1692(5551)(2.5)	

**PORT HEDLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(4)	2500 (8202)	2560 (8399) (1.53%)	2500 (8202)	2500 (8202)
RESA dimensions 180M X 90M commences from RWY end.					
32	(4)	2500 (8202)	2560 (8399) (1.2%)	2500 (8202)	2500 (8202)
RESA dimensions 180M X 90M commences from RWY end.					

Slope 0.1% down to NW. RWY WID 45 RWS WID 300 Graded 150

18	(1)	1000 (3281)	1060 (3478) (1.2%)	1000 (3281)	1000 (3281)
36	(1)	1000 (3281)	1060 (3478) (1.58%)	1000 (3281)	1000 (3281)

Slope Level. RWY WID 18 RWS WID 90

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY14-	TKOF from TWY A;	RWY remaining 1478(4849)	reduce all DIST by 1022(3353)
RWY14-	TKOF from TWY G;	RWY remaining 1280(4199)	reduce all DIST by 1220(4003)
RWY32-	TKOF from TWY A;	RWY remaining 1045(3428)	reduce all DIST by 1455(4774)
RWY32-	TKOF from TWY D;	RWY remaining 1969(6460)	reduce all DIST by 531(1742)
RWY32-	TKOF from TWY G;	RWY remaining 1243(4078)	reduce all DIST by 1257(4124)

**PORT HEDLAND/WODGINA**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	2100 (6890)	2160 (7087) (2.48%)	2100 (6890)	2100 (6890)
27	(3)	2100 (6890)	2160 (7087) (1.74%)	2100 (6890)	2100 (6890)

RWY 09/27 APCH inner edge length 300M.

Slope 0.16% down to W. RWY WID 30 RWS WID 300 Graded 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	2041(6696)(1.6)	2094(6870)(1.9)	2132(6995)(2.2)
RWY27-	2147(7044)(1.6)		

**PORT KEATS**

RWY	(CN)	TORA	TODA	ASDA	LDA
16	(2)	1410 (4626)	1470 (4823) (3.28%)	1410 (4626)	1410 (4626)
		RESA dimensions 46M X 46M commences from RWY end.			
34	(2)	1410 (4626)	1470 (4823) (3%)	1410 (4626)	1410 (4626)

RESA dimensions 60M X 46M commences from RWY end.

RWY 16/34 APCH inner edge length 90M.

Slope 0.6% down to NW. RWY WID 23 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY16-	955(3133)(2.2)	1156(3793)(2.5)		
RWY34-	1310(4298)(1.6)	1375(4511)(1.9)	1417(4649)(2.2)	1439(4721)(2.5)

**PORT LINCOLN**

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	1499 (4918)	1559 (5115) (2.47%)	1499 (4918)	1499 (4918)
		OBST fence 3.6FT ABV and 32M N of RWS end not taken into account in the calculation of TODA GRAD and STODA.			
19	(3)	1499 (4918)	1600 (5249) (2.64%)	1499 (4918)	1499 (4918)
		Slope 0.2% down to S. RWY WID 30 RWS WID 150 Graded 90			
05	(2)	1275 (4183)	1335 (4380) (3%)	1275 (4183)	1275 (4183)
23	(2)	1275 (4183)	1335 (4380) (3.64%)	1275 (4183)	1275 (4183)
		Slope 0.2% down to NE. RWY WID 30 RWS WID 90			
15	(3)	1450 (4757)	1510 (4954) (2.86%)	1450 (4757)	1450 (4757)
33	(3)	1450 (4757)	1510 (4954) (3.47%)	1450 (4757)	1450 (4757)

1. RWY reference code based on 90M approach inner edge WID and 90M TKOF inner edge WID.

2. AVBL RPT OPS HJ only, due OBST Limitation SFC.

Slope 0.6% down to SE. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY19-	1469(4819)(1.6)	1519(4984)(1.9)	1559(5115)(2.2)	1589(5213)(2.5)
RWY05-	1305(4281)(1.6)	1315(4314)(1.9)	1322(4337)(2.2)	1328(4357)(2.5)
RWY23-	1156(3793)(3.3)			
RWY15-	1460(4790)(1.6)	1477(4846)(1.9)	1500(4921)(2.2)	
RWY33-	1054(3458)(1.9)	1220(4003)(2.2)	1334(4377)(2.5)	1494(4902)(3.3)



**PORT MACQUARIE**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(4)	1800 (5905)	1860 (6102) (3.98%)	1800 (5905)	1800 (5905)
21	(4)	1800 (5905)	1860 (6102) (7.92%)	1800 (5905)	1800 (5905)

APCH SFC survey based on 150M inner edge WID.

APCH SFC survey based on 280M inner edge WID AVBL on request, contact AD OPR.

Slope 0.1% down to SW. RWY WID 45 RWS WID 150 Graded 150

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY03-	1272(4173)(1.6)	1473(4833)(1.9)	1591(5220)(2.2)	1670(5479)(2.5)	1797(5896)(3.3)
RWY21-	1160(3806)(1.9)	1301(4268)(2.2)	1406(4613)(2.5)	1590(5216)(3.3)	1787(5863)(5.0)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY21-	TKOF from TWY B;	RWY remaining 1636(5367)	reduce all DIST by 164(538)
RWY21-	TKOF from TWY C1;	RWY remaining 1474(4836)	reduce all DIST by 326(1070)

**PORT PIRIE**

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(1)	672 (2205)	732 (2402) (1.22%)	672 (2205)	672 (2205)
21	(1)	672 (2205)	732 (2402) (1.2%)	672 (2205)	672 (2205)

Slope Level. RWY WID 30 RWS WID 90

08	(2)	1043 (3422)	1103 (3619) (1.2%)	1043 (3422)	1043 (3422)
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RESA dimensions 90M X 60M commences from RWS end.

26	(2)	1043 (3422)	1127 (3697) (1.2%)	1043 (3422)	1043 (3422)
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RESA dimensions 90M X 60M commences from RWS end.

Slope Level. RWY WID 30 RWS WID 90

17	(2)	1069 (3507)	1129 (3704) (1.2%)	1069 (3507)	1069 (3507)
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RESA dimensions 90M X 60M commences from RWS end.

35	(2)	1069 (3507)	1202 (3944) (1.2%)	1142 (3747)	1069 (3507)
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RESA dimensions 90M X 60M commences from RWS end.

Slope Level. RWY WID 30 RWS WID 90

**PORTLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	1616 (5302)	1676 (5499) (2.12%)	1616 (5302)	1616 (5302)

RESA dimensions 90M X 60M commences from RWS end.

26	(3)	1616 (5302)	1676 (5499) (2.27%)	1616 (5302)	1616 (5302)
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RESA dimensions 90M X 60M commences from RWS end.

Slope 0.1% down to W. RWY WID 30 RWS WID 150 Graded 90

17	(2)	1180 (3871)	1240 (4068) (3.21%)	1180 (3871)	1180 (3871)
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35	(2)	1180 (3871)	1240 (4068) (2.31%)	1180 (3871)	1180 (3871)
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Slope 0.4% down to S. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	1527(5010)(1.6)	1620(5315)(1.9)			
RWY26-	1439(4721)(1.6)	1600(5249)(1.9)	1663(5456)(2.2)		
RWY17-	823(2700)(1.9)	952(3123)(2.2)	1058(3471)(2.5)		
RWY35-	1160(3806)(1.6)	1202(3944)(1.9)	1232(4042)(2.2)		

**PROMINENT HILL**

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	2200 (7218)	2400 (7874) (1.2%)	2200 (7218)	2200 (7218)

RESA dimensions 90M X 60M commences from RWS end.

36	(3)	2200 (7218)	2400 (7874) (1.2%)	2200 (7218)	2200 (7218)
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RESA dimensions 90M X 60M commences from RWS end.

Slope 500M S end 0.6% down to S, 1,700M N end 0.2% down to N. RWY WID 30 RWS WID 150 Graded 90

**PROSERPINE/WHITSUNDAY COAST**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
11	(4)	2073 (6801)	2133 (6998) (1.2%)	2073 (6801)	2073 (6801)
		RESA dimensions 90M X 145M commences from RWS end.			
29	(4)	2073 (6801)	2133 (6998) (2.21%)	2073 (6801)	2073 (6801)
		RESA dimensions 90M X 145M commences from RWS end.			
		Slope 0.2% down to E. RWY WID 45 RWS WID 150 Graded 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY29- 2098(6883)(2.2)

**QUILPIE**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(2)	1493 (4898)	1553 (5095) (8.14%)	1493 (4898)	1493 (4898)
27	(2)	1493 (4898)	1553 (5095) (9.81%)	1493 (4898)	1493 (4898)

RWY reference code based on 150M TKOF inner edge WID.

Slope 0.2% down to E. RWY WID 30 RWS WID 90 Graded 90

18	(2)	1070 (3510)	1130 (3707) (2.78%)	1070 (3510)	1070 (3510)
36	(2)	1070 (3510)	1130 (3707) (1.91%)	1070 (3510)	1070 (3510)

Slope 0.3% down to N. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	1280(4199)(1.6)	1367(4485)(1.9)	1398(4587)(2.2)	1422(4665)(2.5)	1466(4810)(3.3)
	1515(4970)(5.0)				
RWY27-	1351(4432)(1.6)	1407(4616)(1.9)	1434(4705)(2.2)	1454(4770)(2.5)	1488(4882)(3.3)
	1522(4993)(5.0)				
RWY18-	942(3091)(1.6)	1044(3425)(1.9)	1087(3566)(2.2)	1111(3645)(2.5)	
RWY36-	1038(3405)(1.6)	1126(3694)(1.9)			

**QUIRINDI**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	1106 (3629)	1166 (3825) (1.2%)	1106 (3629)	1106 (3629)
24	(2)	1106 (3629)	1166 (3825) (1.2%)	1106 (3629)	1106 (3629)

Slope 0.2% down to SW. RWY WID 18 RWS WID 90 Graded 90

14	(3)	1770 (5807)	1830 (6004) (2.08%)	1770 (5807)	1770 (5807)
32	(3)	1770 (5807)	1830 (6004) (1.2%)	1770 (5807)	1770 (5807)

Slope 0.2% down to NW for 1,100M, then 0.3% down to SE for 670M. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY14-	1622(5321)(1.6)	1758(5768)(1.9)			
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**RAMINGINING**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(2)	1380 (4528)	1440 (4724) (2.87%)	1380 (4528)	1380 (4528)
27	(2)	1380 (4528)	1440 (4724) (2.89%)	1380 (4528)	1380 (4528)

RWY 09/27 TNS S side infringed by trees full length by up to 10FT.

Slope 0.5% down to W. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	1063(3487)(1.6)	1197(3927)(1.9)	1294(4245)(2.2)	1369(4491)(2.5)
RWY27-	1184(3884)(1.6)	1262(4140)(1.9)	1327(4354)(2.2)	1381(4531)(2.5)

**RAVENSTHORPE**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	1680 (5512)	1830 (6004) (2.89%)	1680 (5512)	1680 (5512)
RESA dimensions 90M X 60M commences from RWS end.					
24	(3)	1680 (5512)	1740 (5709) (2.1%)	1680 (5512)	1680 (5512)
RESA dimensions 90M X 60M commences from RWS end.					
Slope 800M NE end 0.6% down to SW - end level. RWY WID 30 RWS WID 150 Graded 90					
14	(2)	1200 (3937)	1260 (4134) (3.31%)	1200 (3937)	1200 (3937)
32	(2)	1200 (3937)	1260 (4134) (1.5%)	1200 (3937)	1200 (3937)
Slope 600 NW end 0.1% down to SE end 0.5%. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	1573(5161)(1.6)	1664(5459)(1.9)	1729(5673)(2.2)	1779(5837)(2.5)
RWY24-	1708(5604)(1.6)	1728(5669)(1.9)		
RWY14-	1069(3507)(1.6)	1125(3691)(1.9)	1167(3829)(2.2)	1200(3937)(2.5) 1259(4131)(3.3)

**RENMARK**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(2)	1740 (5709)	1800 (5905) (3.56%)	1740 (5709)	1740 (5709)
25	(2)	1740 (5709)	1800 (5905) (2.66%)	1740 (5709)	1740 (5709)

OBST Fence 6.9FT ABV and 50M SW of RWS end has not been taken into account in the calculation of TODA GRAD and STODA.

Slope 0.4% down to centre from SW end, 0.37% down to centre from NE end. RWY WID 30 RWS WID 90

18	(2)	1024 (3360)	1084 (3556) (3.91%)	1024 (3360)	1024 (3360)
36	(2)	1024 (3360)	1084 (3556) (3.92%)	1024 (3360)	1024 (3360)

Slope 0.3% down to S. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	1499(4918)(1.6)	1583(5194)(1.9)	1644(5394)(2.2)	1691(5548)(2.5) 1782(5846)(3.3)
RWY25-	1266(4153)(1.6)	1462(4797)(1.9)	1620(5315)(2.2)	1750(5741)(2.5)
RWY18-	1027(3369)(3.3)			
RWY36-	880(2887)(2.2)	945(3100)(2.5)	1040(3412)(3.3)	

**RICHMOND (NSW)**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
10	(MIL)	2134 (7001)	2194 (7198) (0%)	2134 (7001)	2134 (7001)
RWY 10 TODA gradient not provided due obstruction in the CWY refer supplementary TKOF distances for RQ CLR gradient.					
28	(MIL)	2134 (7001)	2194 (7198) (4.56%)	2134 (7001)	2134 (7001)
TKOF/Climb SFC inner edge WID 180M.					
Slope 0.06% up to E to 178, then 0.02% down to 381, then 0.2% down to 534, then 0.32% down to 1246, then down 0.23% to 1891, then down 0.04% to end. RWY WID 45 RWS WID 154					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10-	1452(4764)(1.6)	1769(5804)(1.9)	1847(6060)(2.0)	1919(6296)(2.2)	2007(6585)(2.5)
	2154(7067)(3.3)	2165(7103)(5.0)			
RWY28-	1935(6348)(3.3)				

**RICHMOND (QLD)**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
09	(3)	1522 (4993)	1582 (5190) (1.32%)	1522 (4993)	1522 (4993)
RESA dimensions 90M X 60M commences from RWS end.					
27	(3)	1522 (4993)	1582 (5190) (1.2%)	1522 (4993)	1522 (4993)
RESA dimensions 90M X 60M commences from RWS end.					
Slope 0.3% down to W. RWY WID 30 RWS WID 150 Graded 90					

**ROBINVALE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
01	(2)	1140 (3740)	1200 (3937) (2.34%)	1140 (3740)	1140 (3740)
19	(2)	1140 (3740)	1200 (3937) (3.81%)	1140 (3740)	1140 (3740)
Slope 0.8% down to N. RWY WID 18 RWS WID 90					
12	(2)	1175 (3855)	1235 (4052) (2.07%)	1175 (3855)	1175 (3855)
Unlit OBST Fence 9FT ABV and 41M SE of RWS end has not been taken into account in the calculation of the TODA GRAD and STODA.					
30	(2)	1175 (3855)	1235 (4052) (1.38%)	1175 (3855)	1175 (3855)
1. CAUTION: 4% OBST CLR APCH SFC LDG RWY 30 terminates at THR not RWS end.					
2. LDG RWY 30 Unlit OBST fence 9FT ABV and 41M SE of RWS end.					
Slope 1.06% down to NW. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY01-	1000(3281)(1.6)	1087(3566)(1.9)	1169(3835)(2.2)		
RWY19-	862(2828)(2.5)	1113(3652)(3.3)			
RWY12-	882(2894)(1.6)	1179(3868)(1.9)			

**ROCKHAMPTON**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	800 (2625)	860 (2821) (1.6%)	800 (2625)	1140 (3740)
22	(2)	1200 (3937)	1260 (4134) (1.6%)	1200 (3937)	800 (2625)

1. TKOF run commences at starter extension, 60M beyond RWY end.
2. Minor penetration of RWY 04/22 inner horizontal surface in vicinity of control tower by apron floodlighting, microwave tower, control tower lightning conductor rods and MET building. Slope Level. RWY WID 23 RWS WID 80

15	(4)	2628 (8622)	2928 (9606) (1.6%)	2628 (8622)	2568 (8425)
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1. RWY 15 DTHR 60M.
2. From RWY 15 THR TORA is 2568M. For 2628M TORA from RWY 15, taxi to E side of THR lights and line up Northern side of THR.

33	(4)	2568 (8425)	2688 (8819) (1.6%)	2568 (8425)	2568 (8425)
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1. CAUTION: Primary IWI lit by steady red light (HN) infringes transitional SFC (E side).
2. BAK 12 bi-directional, removable, hook cable, 100MM high, installed 487 (1600) FM THR 33, rigged for MIL OPS only. Notified by TWR/NOTAM.
3. CAUTION: Permanent concrete energy-absorber housings 0.3 (1) high located each side of RWY, 14 (46) FM RWY edge.

Slope 0.1% down to SE. RWY WID 45 RWS WID 300 Graded 150

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY15-	TKOF from TWY A;	RWY remaining 1693(5554)	reduce all DIST by 935(3068)
RWY15-	TKOF from TWY B;	RWY remaining 1400(4593)	reduce all DIST by 1228(4029)
RWY33-	TKOF from TWY A;	RWY remaining 902(2959)	reduce all DIST by 1666(5466)
RWY33-	TKOF from TWY B;	RWY remaining 1191(3907)	reduce all DIST by 1377(4518)
RWY33-	TKOF from TWY J;	RWY remaining 2176(7139)	reduce all DIST by 392(1286)

**ROMA**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	801 (2628)	861 (2825) (1.6%)	801 (2628)	801 (2628)
27	(1)	801 (2628)	861 (2825) (7.49%)	801 (2628)	801 (2628)
18	(3)	1504 (4934)	1704 (5590) (1.92%)	1504 (4934)	1504 (4934)
36	(3)	1504 (4934)	1564 (5131) (2.82%)	1504 (4934)	1504 (4934)

- RESA dimensions 30M X 60M commences from RWY end.
- RESA dimensions 60M X 60M commences from RWY end.
- Slope 1.0% down to E. RWY WID 18 RWS WID 60
- RESA dimensions 120M X 90M commences from RWY end.
- RESA dimensions 60M X 90M commences from RWY end.
- Slope Level. RWY WID 30 RWS WID 150 Graded 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	1337(4386)(1.6)	1663(5456)(1.9)		
RWY36-	1420(4659)(1.6)	1504(4934)(1.9)	1541(5056)(2.2)	1554(5098)(2.5)

**ROTTNEST ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	1293 (4242)	1353 (4439) (4.93%)	1293 (4242)	1293 (4242)
27	(1)	1293 (4242)	1353 (4439) (3.99%)	1293 (4242)	1121 (3678)

- RESA dimensions 60M X 36M commences from RWY end.
- RESA dimensions 60M X 36M commences from RWY end.
1. RWY 27 DTHR 172M (564FT).
  2. RWY 09/27 APCH inner edge length 90M, TKOF inner edge length 80M.
- Slope 0.09% down to E. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	879(2884)(2.2)	992(3255)(2.5)	1191(3907)(3.3)	
RWY27-	866(2841)(1.9)	1137(3730)(2.2)	1292(4239)(2.5)	1331(4367)(3.3)

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**SAIBAI ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(1)	750 (2461)	750 (2461) (5.32%)	750 (2461)	670 (2198)
RWY 12 SOT commences at RWS end - ASDA ends at RWS.					
30	(1)	750 (2461)	750 (2461) (1.2%)	750 (2461)	690 (2264)
1. RWY 30 SOT commences at RWS end - ASDA ends at RWS.					
2. CAUTION: OBST fence 4FT ABV and 35M FM THR RWY 12 and 755M FM SOT RWY 30 not taken into account in the calculation of TODA GRAD.					
3. CAUTION: Fence 2FT ABV and 60M FM THR RWY 30 and 752M FM SOT RWY 12 not taken into account in the calculation of RWY 12 TODA GRAD.					
Slope Level. RWY WID 18 RWS WID 60					

**SAINT GEORGE**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1520 (4987)	1580 (5184) (5.5%)	1520 (4987)	1520 (4987)
29	(3)	1520 (4987)	1580 (5184) (6.23%)	1520 (4987)	1520 (4987)
Slope Level. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1149(3770)(1.6)	1282(4206)(1.9)	1378(4521)(2.2)	1433(4701)(2.5)	1507(4944)(3.3)
	1570(5151)(5.0)				
RWY29-	810(2657)(1.6)	1095(3592)(1.9)	1243(4078)(2.2)	1331(4367)(2.5)	1486(4875)(3.3)
	1555(5102)(5.0)				

**SAINT HELENS**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1070 (3510)	1130 (3707) (5.14%)	1070 (3510)	1070 (3510)
RESA dimensions 60M X 30M commences from RWY end.					
26	(2)	1070 (3510)	1130 (3707) (2.89%)	1070 (3510)	1070 (3510)
RESA dimensions 60M X 30M commences from RWY end.					
Slope 1.3% down to E. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	1033(3389)(1.6)	1051(3448)(1.9)	1063(3487)(2.2)	1073(3520)(2.5)	1100(3609)(3.3)
	1128(3701)(5.0)				
RWY26-	1119(3671)(2.5)				

**SCHERGER (RAAF)**

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(MIL)	3049 (10003)	3109 (10200) (2.62%)	3049 (10003)	3049 (10003)
30	(MIL)	3049 (10003)	3109 (10200) (3.48%)	3049 (10003)	3049 (10003)
1. TKOF/Climb SFC inner edge WID 180.					
2. Side transitional SFC infringed by vegetation.					
3. Hook arrester system PTBL.					
Slope 0.1% down to NW. RWY WID 45 RWS WID 150 Graded 150					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY12-	2444(8018)(1.6)	2720(8924)(1.9)	2792(9160)(2.0)	2916(9567)(2.2)	3062(10046)(2.5)
RWY30-	2471(8107)(1.6)	2651(8697)(1.9)	2700(8858)(2.0)	2785(9137)(2.2)	2888(9475)(2.5)
	3077(10095)(3.3)				

**SCORE**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(2)	1400 (4593)	1460 (4790) (3.64%)	1400 (4593)	1400 (4593)
		RESA dimensions 60M X 80M commences from RWY end.			
29	(2)	1400 (4593)	1460 (4790) (2.44%)	1400 (4593)	1400 (4593)
		RESA dimensions 60M X 80M commences from RWY end.			
		Grassed areas WI RWS not AVBL due uneven SFC.			
		Slope 0.8% down to E. RWY WID 30 RWS WID 90 Graded 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	1214(3983)(1.6)	1270(4167)(1.9)	1314(4311)(2.2)	1351(4432)(2.5)	1430(4692)(3.3)
RWY29-	1311(4301)(1.6)	1382(4534)(1.9)	1428(4685)(2.2)		

**SHARK BAY**

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	1690 (5545)	1810 (5938) (7.08%)	1690 (5545)	1690 (5545)
		RESA dimensions 60M X 60M commences from RWS end.			
36	(3)	1690 (5545)	1820 (5971) (4.35%)	1690 (5545)	1690 (5545)
		RESA dimensions 60M X 60M commences from RWS end.			
		RWY 18/36 TKOF inner edge length 90M.			
		Slope S end 0.2% down to N - N end 0.1% down to S. RWY WID 30 RWS WID 90 Graded 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	1693(5554)(1.6)	1735(5692)(1.9)	1765(5791)(2.2)	1784(5853)(2.5)	1794(5886)(3.3)
	1804(5919)(5.0)				
RWY36-	1724(5656)(1.6)	1747(5732)(1.9)	1764(5787)(2.2)	1777(5830)(2.5)	1801(5909)(3.3)

**SHELLHARBOUR AIRPORT**

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1331 (4367)	1391 (4564) (9.39%)	1331 (4367)	1331 (4367)
		RESA dimensions 100M X 90M commences from RWY end.			
26	(2)	1331 (4367)	1391 (4564) (7.28%)	1331 (4367)	1241 (4071)
		RESA dimensions 160M X 90M commences from RWY end.			
		RWY 26 DTHR 90M.			
		Slope 0.2% down to E. RWY WID 30 RWS WID 90			
16	(2)	1819 (5968)	1879 (6165) (5.32%)	1819 (5968)	1819 (5968)
		RESA dimensions 160M X 90M commences from RWY end.			
34	(2)	1819 (5968)	1879 (6165) (4.46%)	1819 (5968)	1643 (5390)
		RESA dimensions 160M X 90M commences from RWY end.			
		1. RWY 34 APCH & RWY 16 TKOF offset 5DEG W.			
		2. RWY 34 DTHR 176M.			
		Slope 0.1% down to N. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	870(2854)(1.9)	947(3107)(2.2)	1025(3363)(2.5)	1160(3806)(3.3)	1294(4245)(5.0)
RWY26-	828(2717)(1.9)	978(3209)(2.2)	1052(3451)(2.5)	1193(3914)(3.3)	1315(4314)(5.0)
RWY16-	1846(6056)(5.0)				
RWY34-	1022(3353)(2.2)	1332(4370)(2.5)	1747(5732)(3.3)		

**SHEPPARTON**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	434 (1424)	494 (1621) (4.69%)	434 (1424)	434 (1424)
27	(1)	434 (1424)	464 (1522) (4.07%)	434 (1424)	434 (1424)

Slope Level. RWY WID 30 RWS WID 90

18	(1)	1298 (4258)	1358 (4455) (4.48%)	1298 (4258)	1238 (4062)
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RESA dimensions 60M X 36M commences from RWY end.

1. RWY 18 DTHR 60M.

2. RWY 18 transition SFC infringed by trees W side APPROX 40 FM RWS end.

36	(1)	1298 (4258)	1358 (4455) (3.08%)	1298 (4258)	1207 (3960)
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RESA dimensions 60M X 36M commences from RWY end.

1. RWY 36 DTHR 91M.

2. CAUTION: Transient OBST up to 5.3FT ABV and 47M N of RWS end is not taken into account in the calculation of the TODA GRAD and STODA.

Slope Level. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18- 852(2795)(1.9) 983(3225)(2.2) 1082(3550)(2.5) 1236(4055)(3.3)

RWY36- 961(3153)(1.9) 1126(3694)(2.2) 1244(4081)(2.5)

**SNAKE BAY**

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(2)	1443 (4734)	1503 (4931) (2.73%)	1443 (4734)	1443 (4734)
31	(2)	1443 (4734)	1503 (4931) (3.28%)	1443 (4734)	1443 (4734)

RWY 13/31 APCH inner edge length 90M.

Slope 0.4% down to NW. RWY WID 30 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY13- 1013(3323)(1.6) 1260(4134)(1.9) 1425(4675)(2.2) 1477(4846)(2.5)

RWY31- 1052(3451)(1.6) 1247(4091)(1.9) 1396(4580)(2.2) 1441(4728)(2.5)

**SOLOMON**

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	2000 (6562)	2060 (6758) (1.27%)	2000 (6562)	2000 (6562)
		RESA dimensions 90M X 60M commences from RWY end.			
27	(3)	2000 (6562)	2060 (6758) (1.52%)	2000 (6562)	2000 (6562)

RESA dimensions 90M X 60M commences from RWY end.

RWY 09/27 APCH inner edge length 150M.

Slope 0.25% down to west. RWY WID 30 RWS WID 150 Graded 90

**SOUTH GOULBURN ISLAND**

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(2)	1400 (4593)	1460 (4790) (2.79%)	1400 (4593)	1400 (4593)
28	(2)	1400 (4593)	1460 (4790) (1.39%)	1400 (4593)	1400 (4593)

Slope 0.4% down to E. RWY WID 18 RWS WID 90

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY10- 1334(4377)(1.6) 1377(4518)(1.9) 1411(4629)(2.2) 1438(4718)(2.5)

**SOUTHERN CROSS**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
09	(2)	1319 (4327)	1379 (4524) (2.99%)	1319 (4327)	1319 (4327)
27	(2)	1319 (4327)	1379 (4524) (1.73%)	1319 (4327)	1319 (4327)
Slope 0.5% down to W. RWY WID 30 RWS WID 90					
14	(1)	1405 (4610)	1465 (4806) (1.98%)	1405 (4610)	1405 (4610)
32	(1)	1405 (4610)	1465 (4806) (3.06%)	1405 (4610)	1405 (4610)
Slope 0.35% down to NW. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY09-	981(3218)(1.9)	1140(3740)(2.2)	1252(4108)(2.5)		
RWY27-	1352(4436)(1.6)				
RWY14-	1169(3835)(1.6)	1406(4613)(1.9)			
RWY32-	1035(3396)(1.6)	1223(4012)(1.9)	1350(4429)(2.2)	1402(4600)(2.5)	

**ST ARNAUD**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
09	(1)	535 (1755)	595 (1952) (4.89%)	535 (1755)	535 (1755)
27	(1)	535 (1755)	595 (1952) (3.64%)	535 (1755)	535 (1755)
Slope 0.6% down to W. RWY WID 18 RWS WID 90					
18	(1)	1011 (3317)	1066 (3497) (1.88%)	1011 (3317)	865 (2838)
RWY 18 DTHR 146M.					
36	(1)	1011 (3317)	1064 (3491) (2.04%)	1011 (3317)	1011 (3317)
CAUTION: Transient OBST up to 14.8FT ABV and 47M N of RWS end, not taken into account in calculation of TODA GRAD and STODA.					
Slope Level. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY36-	827(2713)(1.6)	1007(3304)(1.9)			
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**STANTHORPE**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
08	(2)	1711 (5613)	1771 (5810) (5.15%)	1711 (5613)	1711 (5613)
26	(2)	1711 (5613)	1771 (5810) (3.5%)	1711 (5613)	1711 (5613)
Slope 1.4% down to W. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY08-	1211(3973)(2.2)	1404(4606)(2.5)	1622(5321)(3.3)	1765(5791)(5.0)	
RWY26-	1625(5331)(1.6)	1691(5548)(1.9)	1712(5617)(2.2)	1729(5673)(2.5)	1764(5787)(3.3)

**STAWELL**

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1403 (4603)	1463 (4800) (3.55%)	1403 (4603)	1403 (4603)
RESA dimensions 60M X 45M commences from RWY end.					
29	(3)	1403 (4603)	1463 (4800) (6.97%)	1403 (4603)	1403 (4603)
RESA dimensions 60M X 90M commences from RWY end.					
Unlit OBST fence 1FT ABV at RWS end and 75M S of RCL not taken into account in calculation of TODA GRAD and STODA.					
Slope 0.5% down to W. RWY WID 30 RWS WID 90					
18	(2)	854 (2802)	914 (2999) (3.7%)	854 (2802)	854 (2802)
RESA dimensions 60M X 90M commences from RWY end.					
36	(2)	854 (2802)	914 (2999) (2.02%)	854 (2802)	854 (2802)
RESA dimensions 60M X 45M commences from RWY end.					
Slope 1.3% down to N. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11-	860(2821)(1.6)	1173(3848)(1.9)	1321(4334)(2.2)	1374(4508)(2.5)	1450(4757)(3.3)
RWY29-	1125(3691)(1.6)	1176(3858)(1.9)	1219(3999)(2.2)	1257(4124)(2.5)	1337(4386)(3.3)
	1426(4678)(5.0)				
RWY18-	826(2710)(3.3)				
RWY36-	843(2766)(1.6)	895(2936)(1.9)			

**STRAHAN**

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(1)	1220 (4003)	1280 (4199) (9.07%)	1220 (4003)	1220 (4003)
36	(1)	1220 (4003)	1280 (4199) (2.56%)	1220 (4003)	1220 (4003)
1. RWY 18/36 transitional SFC infringed on E side up to 1.2M.					
2. RWY 36 - Transient OBST up to 12.4FT ABV and 131M N of RWS end is taken into account in the calculation of TODA GRAD and STODA.					
Slope Level. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY18-	1185(3888)(1.6)	1203(3947)(1.9)	1216(3989)(2.2)	1226(4022)(2.5)	1245(4085)(3.3)
	1263(4144)(5.0)				
RWY36-	943(3094)(2.2)	1233(4045)(2.5)			

**STREAKY BAY**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	780 (2559)	840 (2756) (2.88%)	780 (2559)	780 (2559)
23	(1)	780 (2559)	840 (2756) (2.01%)	780 (2559)	780 (2559)
Slope 0.15% down to SW. RWY WID 18 RWS WID 90					
13	(2)	1351 (4432)	1411 (4629) (2.72%)	1351 (4432)	1351 (4432)
RESA dimensions 120M X 60M commences from RWY end.					
31	(2)	1351 (4432)	1411 (4629) (1.2%)	1351 (4432)	1351 (4432)
RESA dimensions 90M X 60M commences from RWY end.					
Slope 0.9% down to SE and 0.3% down to NW. Highest point 300 from NW end. RWY WID 18 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY23-	815(2674)(1.9)				
RWY13-	1234(4049)(1.6)	1302(4272)(1.9)	1349(4426)(2.2)	1388(4554)(2.5)	

**SUNRISE DAM**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
06	(3)	1950 (6398)	2010 (6594) (1.25%)	1950 (6398)	1950 (6398)
		RESA dimensions 90M X 60M commences from RWS end.			
24	(3)	1950 (6398)	2010 (6594) (1.2%)	1950 (6398)	1950 (6398)
		RESA dimensions 90M X 60M commences from RWS end.			
		RWY 06/24 APCH inner edge length 150M.			
		Slope 0.3% down to SW. RWY WID 30 RWS WID 150			

**SUNSHINE COAST**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
13	(4)	2625 (8612)	2685 (8809) (2.47%)	2625 (8612)	2625 (8612)
		RESA dimensions 240M X 90M commences from RWS end.			
31	(4)	2800 (9186)	2860 (9383) (2.51%)	2800 (9186)	2450 (8038)
		RESA dimensions 240M X 90M commences from RWS end.			
		RWY 31 DTHR 175M (from RWY 13 end).			
		Slope Level. RWY WID 45 RWS WID 300 Graded 150			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY13-	2494(8182)(1.6)	2611(8566)(1.9)	2655(8711)(2.2)
RWY31-	1678(5505)(1.9)	2765(9071)(2.2)	2860(9383)(2.5)

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY13-	TKOF from TWY A2;	RWY remaining 1234(4049)	reduce all DIST by 1391(4564)
RWY31-	TKOF from TWY A1;	RWY remaining 2450(8038)	reduce all DIST by 350(1148)
RWY31-	TKOF from TWY A2;	RWY remaining 1409(4623)	reduce all DIST by 1391(4564)

**SWAN HILL**

<b>RWY</b>	<b>(CN)</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
04	(2)	980 (3215)	1040 (3412) (2.9%)	980 (3215)	980 (3215)
22	(2)	980 (3215)	1040 (3412) (2.91%)	980 (3215)	980 (3215)
		Slope 0.2% down to NE. RWY WID 23 RWS WID 90			
08	(3)	1495 (4905)	1555 (5102) (5.41%)	1495 (4905)	1495 (4905)
		1. LDG RWY 08 - Unlit OBST fence 10FT ABV and 22M W of RWS end.			
		2. 3.33% OBSTR CLR APCH SFC LDG RWY 08 terminates at THR not RWS end.			
		3. Caution: Fence 6.3 FT ABV at RWS end is not taken into account in the calculation of TODA GRAD and STODA.			
		4. Transient OBST 16FT ABV at RWS end not taken into account in calculation of TODA GRAD and STODA.			
26	(3)	1495 (4905)	1555 (5102) (9.16%)	1495 (4905)	1495 (4905)
		1. LDG RWY 26 - Unlit OBST is fence 6.5FT ABV at RWS end.			
		2. 3.33% OBSTR CLR APCH SFC LDG RWY 26 terminates at THR not RWS end.			
		3. Caution: Fence 10.5 FT ABV and 22M W of RWS end and fence 12.4FT ABV and 42M W of RWS end, are not taken into account in the calculation of TODA GRAD and STODA.			
		Slope 0.1% down to E. RWY WID 30 RWS WID 90			

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	824(2703)(2.2)	913(2995)(2.5)			
RWY22-	819(2687)(1.9)	909(2982)(2.2)	976(3202)(2.5)		
RWY08-	1218(3996)(1.6)	1367(4485)(1.9)	1407(4616)(2.2)	1441(4728)(2.5)	1495(4905)(3.3)
	1547(5075)(5.0)				
RWY26-	1365(4478)(1.6)	1398(4587)(1.9)	1424(4672)(2.2)	1444(4737)(2.5)	1479(4852)(3.3)
	1520(4987)(5.0)				

**SYDNEY/BANKSTOWN**

RWY	(CN)	TORA	TODA	ASDA	LDA
11C	(3)	1416 (4646)	1476 (4842) (4.21%)	1416 (4646)	1259 (4131)
RESA dimensions 90M X 90M commences from RWY end. RWY 11C LDA DISP THR 97M.					
29C	(3)	1416 (4646)	1476 (4842) (4.56%)	1416 (4646)	1356 (4449)
RESA dimensions 90M X 90M commences from RWY end. TKOF Transient OBST TWY E 17FT AGL and 7M NW of RWS end is not taken into account in calculation of TODA and STODA GRAD. TORA commences at RWS end for both RWY 11C and 29C. Slope W end 0.5% down to E. Centre 0.2% up to E. E end 0.2% down to W. RWY WID 30 RWS WID 90					
11L	(2)	1100 (3609)	1160 (3806) (3.44%)	1100 (3609)	1100 (3609)
29R	(2)	1100 (3609)	1160 (3806) (2.89%)	1100 (3609)	1100 (3609)
TKOF Transient OBST TWY A2 27FT AGL and 76M NW of RWS end is not taken into account in calculation of TODA and STODA GRAD. Slope 0.3% down to W. RWY WID 30 RWS WID 90					
11R	(2)	1038 (3405)	1098 (3602) (3.32%)	1038 (3405)	1038 (3405)
TKOF Transient OBST TWY B6 17FT AGL and 100M SE of RWS end is not taken into account in calculation of TODA and STODA GRAD.					
29L	(2)	1038 (3405)	1098 (3602) (4.2%)	1038 (3405)	1038 (3405)
Slope 0.1% down to W. RWY WID 23 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY11C-	912(2992)(2.2)	1044(3425)(2.5)	1279(4196)(3.3)
RWY29C-	914(2999)(2.2)	1056(3465)(2.5)	1309(4295)(3.3)
RWY11L-	1029(3376)(3.3)		
RWY29R-	829(2720)(1.9)	1003(3291)(2.2)	1135(3724)(2.5)
RWY11R-	838(2749)(2.5)		
RWY29L-	966(3169)(3.3)		

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY29R- TKOF from TWY A7; RWY remaining 1005(3297) reduce all DIST by 95(312)

**SYDNEY/KINGSFORD SMITH**

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(4)	2530 (8300)	2620 (8596) (4.33%)	2560 (8399)	2530 (8300)

RESA dimensions 90M X 90M commences from RWS end.

Approach GRAD 3.3%

25	(4)	2530 (8300)	2590 (8497) (3.02%)	2530 (8300)	2429 (7969)
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RESA dimensions 90M X 90M commences from RWS end.

1. Approach GRAD 3.5%.

2. RWY 25 LOC aerial 11FT ABV RWY 07 THR and LCA 2608M FM RWY 25 SOT is not taken into account in the calculation of TODA gradient and STODA.

3. OBST concrete barrier and associated railings 7.5FT ABV RWY 07 THR LCA 2605M FM RWY 25 SOT and 45M S of extended RCL is not taken into account in the calculation of TODA gradient and STODA.

4. RWY 25 DTHR 101M.

Slope 550M E end 0.4% down to W; Centre 1580M level; 400M W end 0.3% down to E. RWY WID 45 RWS WID 280 Graded 150

16L	(4)	2438 (7999)	2528 (8294) (3.06%)	2438 (7999)	2207 (7241)
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RESA dimensions 90M X 90M commences from RWS end.

Approach GRAD 3.0%, RWY 16L DTHR 231M.

34R	(4)	2438 (7999)	2498 (8195) (3.43%)	2438 (7999)	2400 (7874)
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RESA dimensions 90M X 90M commences from RWS end.

1. RWY 34R DTHR 38M.

2. OBST- HIAL LCA BTN 2517M and 2880M FM SOT MAX height AGL 22FT penetrate OLS by MAX 4FT are not taken into account in the calculation of TODA gradient and STODA.

3. Wind turbulence on RWY 34R may be induced by ships docked at container port located E of RWY 34R when wind is BTN 020 MAG and 065 MAG with a mean wind speed greater than 14KT (gust 20KT).

Slope 0.08% down to S. RWY WID 45 RWS WID 280 Graded 150

16R	(4)	3962 (12999)	4052 (13294) (2.35%)	3992 (13097)	3877 (12720)
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RESA dimensions 90M X 90M commences from RWS end.

1. Approach GRAD 2.5%, RWY 16R DTHR 85M.

2. OBST-HIAL LCA 4081M FM SOT 6FT AGL penetrates OLS by 1FT is not taken into account in the calculation of TODA gradient and STODA.

3. Wind TURB on RWY 16R may be induced by road construction and associated structures LCA under APCH when wind is BTN 200 MAG and 245 MAG with a mean wind speed greater than 18KT (gust 25KT) or when wind is BTN 078 MAG and 101 MAG with a mean wind speed of 14KT (gust 19KT).

34L	(4)	3962 (12999)	4059 (13317) (3.08%)	3962 (12999)	3962 (12999)
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RESA dimensions 90M X 90M commences from RWS end.

1. Approach GRAD 2.1%.

2. OBST two aerals associated with 34L ILS located 4083.4M FM SOT RWY 34L, aerial one on the extended RWY CL, aerial two 57.5M W of the RWY CL, both 15FT AGL infringe the OLS by 4.5FT and OBST-HIAL LCA BTN 4057M and 4303M FM SOT MAX height AGL 19FT penetrate OLS by MAX 7FT are not taken into account in calculation of TODA gradient and STODA.

Slope 0.2% down to N and 0.1% down to S. Highest point 1920M from N end. RWY WID 45 RWS WID 280 Graded 150



**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY07-	1285(4216)(1.6)	1653(5423)(1.9)	1919(6296)(2.2)	2124(6968)(2.5)	2448(8031)(3.3)
RWY25-	1938(6358)(1.9)	2383(7818)(2.2)	2465(8087)(2.5)		
RWY16L-	2450(8038)(1.6)	2482(8143)(1.9)	2499(8199)(2.2)	2509(8232)(2.5)	
RWY34R-	1552(5092)(1.6)	2028(6653)(1.9)	2269(7444)(2.2)	2364(7756)(2.5)	2469(8100)(3.3)
RWY16R-	3955(12976)(1.6)	4001(13126)(1.9)	4036(13241)(2.2)		
RWY34L-	3455(11335)(1.6)	3707(12162)(1.9)	3884(12743)(2.2)	3975(13041)(2.5)	

**TAXIWAY INTERSECTION DECLARED DISTANCES**

RWY07-	TKOF from TWY A;	RWY remaining 1666(5466)	reduce all DIST by 864(2835)
RWY07-	TKOF from TWY B;	RWY remaining 1300(4265)	reduce all DIST by 1230(4035)
RWY07-	TKOF from TWY C;	RWY remaining 1146(3760)	reduce all DIST by 1384(4541)
RWY07-	TKOF from TWY G2;	RWY remaining 2397(7864)	reduce all DIST by 133(436)
RWY07-	TKOF from TWY Y;	RWY remaining 2053(6735)	reduce all DIST by 477(1565)
RWY25-	TKOF from TWY B;	RWY remaining 1254(4114)	reduce all DIST by 1276(4186)
RWY25-	TKOF from TWY C;	RWY remaining 1406(4613)	reduce all DIST by 1124(3688)
RWY25-	TKOF from TWY D;	RWY remaining 1865(6119)	reduce all DIST by 665(2182)
RWY25-	TKOF from TWY G4;	RWY remaining 2394(7854)	reduce all DIST by 136(446)
RWY16L-	TKOF from TWY L;	RWY remaining 2277(7470)	reduce all DIST by 161(528)
RWY34R-	TKOF from TWY T5;	RWY remaining 2362(7749)	reduce all DIST by 76(249)
RWY16R-	TKOF from TWY A3;	RWY remaining 1931(6335)	reduce all DIST by 2031(6663)
RWY16R-	TKOF from TWY B10;	RWY remaining 1439(4721)	reduce all DIST by 2523(8277)
RWY16R-	TKOF from TWY B3;	RWY remaining 3330(10925)	reduce all DIST by 632(2073)
RWY16R-	TKOF from TWY B4;	RWY remaining 3139(10298)	reduce all DIST by 823(2700)
RWY16R-	TKOF from TWY B6;	RWY remaining 2926(9600)	reduce all DIST by 1036(3399)
RWY16R-	TKOF from TWY B8;	RWY remaining 2142(7027)	reduce all DIST by 1820(5971)
RWY16R-	TKOF from TWY F;	RWY remaining 3426(11240)	reduce all DIST by 536(1759)
RWY16R-	TKOF from TWY G;	RWY remaining 2849(9347)	reduce all DIST by 1113(3652)
RWY16R-	TKOF from TWY L;	RWY remaining 1359(4459)	reduce all DIST by 2603(8540)
RWY34L-	TKOF from TWY A5;	RWY remaining 3352(10997)	reduce all DIST by 610(2001)
RWY34L-	TKOF from TWY B10;	RWY remaining 2546(8353)	reduce all DIST by 1416(4646)
RWY34L-	TKOF from TWY B6;	RWY remaining 1059(3474)	reduce all DIST by 2903(9524)
RWY34L-	TKOF from TWY B8;	RWY remaining 1842(6043)	reduce all DIST by 2120(6955)
RWY34L-	TKOF from TWY G;	RWY remaining 1135(3724)	reduce all DIST by 2827(9275)
RWY34L-	TKOF from TWY K;	RWY remaining 1662(5453)	reduce all DIST by 2300(7546)
RWY34L-	TKOF from TWY L;	RWY remaining 2626(8615)	reduce all DIST by 1336(4383)

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**TAMWORTH**

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	842 (2762)	902 (2959) (3.74%)	842 (2762)	842 (2762)
24	(2)	842 (2762)	902 (2959) (2.52%)	842 (2762)	842 (2762)
Slope 0.2% down to SW. RWY WID 30 RWS WID 90					
12L	(4)	2200 (7218)	2260 (7415) (1.4%)	2200 (7218)	2200 (7218)
30R	(4)	2200 (7218)	2260 (7415) (2.2%)	2200 (7218)	2200 (7218)
Slope 0.8% first 1630(5348) down to NW then level. RWY WID 45 RWS WID 150					
12R	(1)	1110 (3642)	1140 (3740) (3.57%)	1110 (3642)	1110 (3642)
30L	(1)	1110 (3642)	1140 (3740) (2.69%)	1110 (3642)	1110 (3642)
Slope 0.99% first 670M(2198) down to NW then 1.243% to end. RWY WID 18 RWS WID 90					
18	(2)	1020 (3346)	1080 (3543) (3.44%)	1020 (3346)	984 (3228)
RWY 18 DTHR 36M.					
36	(2)	1020 (3346)	1080 (3543) (6.62%)	1020 (3346)	1020 (3346)
Slope 1.2% down to N. RWY WID 30 RWS WID 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY06-	820(2690)(2.5)	879(2884)(3.3)			
RWY24-	898(2946)(2.5)				
RWY30R-	2152(7060)(1.6)	2243(7359)(1.9)			
RWY12R-	841(2759)(2.2)	936(3071)(2.5)	1102(3615)(3.3)		
RWY30L-	1000(3281)(1.6)	1040(3412)(1.9)	1074(3524)(2.2)	1115(3658)(2.5)	
RWY18-	1038(3405)(3.3)				
RWY36-	874(2867)(1.6)	903(2963)(1.9)	930(3051)(2.2)	953(3127)(2.5)	998(3274)(3.3)
	1060(3478)(5.0)				

**TAREE**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1504 (4934)	1564 (5131) (2.48%)	1504 (4934)	1389 (4557)
RESA dimensions 60M X 60M commences from RWY end.					
RWY 04 DTHR 115M (377FT).					
22	(3)	1504 (4934)	1564 (5131) (21.99%)	1504 (4934)	1504 (4934)
RESA dimensions 60M X 60M commences from RWY end.					
RWY 04/22: TKOF climb SFC inner edge 150M.					
CAUTION: NE end unlit OBST fence 3FT ABV and 89M E of RWY CL has not been taken into account in calculation of TODA GRAD and STODA.					
Slope 0.5% down to NE. RWY WID 30 RWS WID 150 Graded 90					
12	(1)	564 (1850)	624 (2047) (3.75%)	564 (1850)	564 (1850)
30	(1)	564 (1850)	624 (2047) (5%)	564 (1850)	564 (1850)
1. Trees infringe transitional SFC on S side of the RWY.					
2. RWY 12/30 RWS S side transitional surface infringed.					
Slope 0.2% down to SE. RWY WID 18 RWS WID 60					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY04-	1334(4377)(1.6)	1487(4879)(1.9)	1560(5118)(2.2)		
RWY22-	1042(3419)(1.9)	1221(4006)(2.2)	1344(4409)(2.5)	1482(4862)(3.3)	1518(4980)(5.0)