



EN ROUTE SUPPLEMENT AUSTRALIA

**RUNWAY DISTANCE
SUPPLEMENT**

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ABRA MINE

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1800 (5905)	1860 (6102) (2.9%)	1800 (5905)	1800 (5905)
29	(3)	1800 (5905)	1860 (6102) (2.92%)	1800 (5905)	1800 (5905)

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) (2.64%)	3160 (10367)	2950 (9678)
RWY 05 DTHR 150M.					
23	(4)	3100 (10170)	3204 (10512) (3.08%)	3160 (10367)	3100 (10170)
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) (2.6%)	1652 (5420)	1652 (5420)
30	(4)	1652 (5420)	1832 (6010) (2.22%)	1652 (5420)	1652 (5420)
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-	2836(9304)(1.6)	2989(9806)(1.9)	3099(10167)(2.2)	3177(10423)(2.5)
RWY23-	2873(9426)(1.6)	3049(10003)(1.9)	3105(10187)(2.2)	3147(10325)(2.5)
RWY12-	1270(4167)(1.6)	1603(5259)(1.9)	1732(5682)(2.2)	1812(5945)(2.5)
RWY30-	1514(4967)(1.6)	1745(5725)(1.9)	1831(6007)(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) (2.67%)	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) (3.39%)	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)
1. OBST limitation SFC not surveyed to ICAO standard. RWY 03R/21L TKOF overall length 3000M.					
2. 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) (2.9%)	958 (3143)	958 (3143)
26R	(2)	958 (3143)	1018 (3340) (3.83%)	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) (3.76%)	992 (3255)	992 (3255)
Slope 0.1% down to W. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03L-	1061(3481)(1.9)	1268(4160)(2.2)	1372(4501)(2.5)
RWY21R-	1139(3737)(1.6)	1403(4603)(1.9)	
RWY03R-	907(2976)(2.2)	1076(3530)(2.5)	1326(4350)(3.3)
RWY08L-	812(2664)(2.5)		
RWY26R-	954(3130)(3.3)		
RWY08R-	904(2966)(2.5)		
RWY26L-	859(2818)(2.5)	999(3278)(3.3)	

TAXIWAY INTERSECTION DECLARED DISTANCES

RWY03L- TKOF from TWY B; 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)
32	(3)	1800 (5905)	1860 (6102) (2.04%)	1800 (5905)	1800 (5905)
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) (2.59%)	1900 (6234)	1900 (6234)
25	(3)	1900 (6234)	1990 (6529) (3.64%)	1900 (6234)	1900 (6234)
Slope 0.2% down to E. RWY WID 30 RWS WID 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY07-	1710(5610)(2.5)	
RWY25-	805(2641)(2.5)	1943(6375)(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)
30	(4)	2438 (7999)	2738 (8983) (1.93%)	2438 (7999)	2438 (7999)
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)
35	(2)	1133 (3717)	1193 (3914) (3.69%)	1133 (3717)	1133 (3717)
Slope 0.2% down to S. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY30-	825(2707)(1.6)	2613(8573)(1.9)		
RWY35-	859(2818)(1.9)	962(3156)(2.2)	1037(3402)(2.5)	1159(3802)(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)
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)
30	(1)	1240 (4068)	1300 (4265) (1.2%)	1240 (4068)	1240 (4068)

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) (2.71%)	2300 (7546)	2300 (7546)
19	(3)	2300 (7546)	2360 (7743) (2.8%)	2300 (7546)	2300 (7546)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY01-	2173(7129)(1.6)	2243(7359)(1.9)	2296(7533)(2.2)	2337(7667)(2.5)
RWY19-	1873(6145)(1.6)	2061(6762)(1.9)	2191(7188)(2.2)	2287(7503)(2.5)

ARMIDALE

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1738 (5702)	1798 (5899) (2.54%)	1738 (5702)	1738 (5702)
23	(3)	1738 (5702)	1798 (5899) (1.94%)	1738 (5702)	1738 (5702)

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) (3.48%)	1116 (3661)	1116 (3661)
27	(2)	1116 (3661)	1176 (3858) (3.29%)	1116 (3661)	1116 (3661)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05-	1739(5705)(1.6)	1769(5804)(1.9)	1785(5856)(2.2)	1797(5896)(2.5)
RWY23-	1620(5315)(1.6)	1773(5817)(1.9)		
RWY09-	946(3104)(1.9)	1034(3392)(2.2)	1081(3547)(2.5)	1165(3822)(3.3)
RWY27-	962(3156)(1.6)	1014(3327)(1.9)	1067(3501)(2.2)	1105(3625)(2.5)

AURUKUN

RWY	(CN)	TORA	TODA	ASDA	LDA
16	(2)	1260 (4134)	1320 (4331) (2.21%)	1260 (4134)	1260 (4134)
34	(2)	1260 (4134)	1320 (4331) (1.22%)	1260 (4134)	1260 (4134)

Slope Level. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY16-	1032(3386)(1.6)	1195(3921)(1.9)	1314(4311)(2.2)
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AVALON

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(4)	3048 (10000)	3353 (11001) (1.77%)	3108 (10197)	3048 (10000)
36	(4)	3048 (10000)	3291 (10797) (1.67%)	3108 (10197)	3048 (10000)

Slope 0.03% down to N. RWY WID 45 RWS WID 300 Graded 150

SUPPLEMENTARY TAKEOFF DISTANCES

RWY18-	3329(10922)(1.6)
RWY36-	3249(10659)(1.6)

AYERS ROCK/CONNELLAN

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(3)	2599 (8527)	2659 (8724) (2.08%)	2599 (8527)	2599 (8527)
31	(3)	2599 (8527)	2659 (8724) (2.41%)	2599 (8527)	2599 (8527)

Slope SE end level to RWY centre. 0.3% down to NW. RWY WID 30 RWS WID 150

SUPPLEMENTARY TAKEOFF DISTANCES

RWY13-	2517(8258)(1.6)	2615(8579)(1.9)	
RWY31-	2572(8438)(1.6)	2609(8560)(1.9)	2641(8665)(2.2)

BAIRNSDALE

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	1098 (3602)	1158 (3799) (2.18%)	1098 (3602)	1098 (3602)
22	(1)	1098 (3602)	1158 (3799) (3.32%)	1098 (3602)	1098 (3602)
Slope 0.3% down to NE. RWY WID 18 RWS WID 90 Graded 90					
13	(1)	852 (2795)	912 (2992) (3.52%)	852 (2795)	852 (2795)
31	(1)	852 (2795)	912 (2992) (3.52%)	852 (2795)	852 (2795)
Slope 0.1% down to SE. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04-	945(3100)(1.6)	1063(3487)(1.9)			
RWY22-	833(2733)(1.9)	944(3097)(2.2)	1025(3363)(2.5)		
RWY13-	889(2917)(3.3)				
RWY31-	875(2871)(3.3)				

BALGO HILL

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(2)	1610 (5282)	1670 (5479) (2.87%)	1610 (5282)	1610 (5282)
33	(2)	1610 (5282)	1670 (5479) (1.2%)	1610 (5282)	1610 (5282)
Slope 0.8% down to NW. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY15-	1373(4505)(1.6)	1506(4941)(1.9)	1578(5177)(2.2)	1627(5338)(2.5)	
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BALLARAT

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1265 (4150)	1325 (4347) (4.47%)	1265 (4150)	1265 (4150)
RWY 05 S side transitional SFC infringed by tower and radio aerial.					
23	(3)	1265 (4150)	1325 (4347) (6.03%)	1265 (4150)	1265 (4150)
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) (1.2%)	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) (2.93%)	1245 (4085)	1245 (4085)
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-	987(3238)(2.2)	1064(3491)(2.5)	1221(4006)(3.3)		
RWY23-	886(2907)(1.6)	999(3278)(1.9)	1102(3615)(2.2)	1190(3904)(2.5)	1311(4301)(3.3)
	1321(4334)(5.0)				
RWY18-	842(2762)(1.9)	1115(3658)(2.2)			
RWY36-	1227(4026)(2.5)				

BALLERA

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	1800 (5905)	1860 (6102) (1.6%)	1800 (5905)	1800 (5905)
21	(3)	1800 (5905)	1860 (6102) (1.2%)	1800 (5905)	1800 (5905)

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) (3.41%)	1900 (6234)	1900 (6234)
24	(3)	1900 (6234)	1960 (6430) (3.23%)	1900 (6234)	1900 (6234)

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-	1200(3937)(1.9)	1504(4934)(2.2)	1736(5695)(2.5)	1947(6388)(3.3)
RWY24-	1347(4419)(1.9)	1551(5089)(2.2)	1705(5594)(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) (1.79%)	1940 (6365)	1880 (6168)
28	(3)	1940 (6365)	2000 (6562) (1.68%)	1940 (6365)	1880 (6168)

1. RWY 10/28 TORA, TODA and ASDA begin at RWS end.

2. RWY 10/28 transitional SFC infringed 1FT by Eastern IWI.

3. 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)

RWY28- 1979(6493)(1.6)

BARROW ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	1900 (6234)	1960 (6430) (1.86%)	1900 (6234)	1900 (6234)
21	(3)	1900 (6234)	1960 (6430) (3.11%)	1900 (6234)	1900 (6234)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03- 1946(6384)(1.6)

RWY21- 1893(6211)(1.6) 1915(6283)(1.9) 1931(6335)(2.2) 1943(6375)(2.5)

BATHURST

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1315 (4314)	1375 (4511) (3.06%)	1315 (4314)	1315 (4314)
26	(2)	1315 (4314)	1375 (4511) (1.2%)	1315 (4314)	1315 (4314)
17	(3)	1705 (5594)	1765 (5791) (2.43%)	1705 (5594)	1705 (5594)
35	(3)	1705 (5594)	1765 (5791) (2.48%)	1705 (5594)	1705 (5594)

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- 1096(3596)(2.5)

RWY17- 996(3268)(1.6) 1551(5089)(1.9) 1674(5492)(2.2)

RWY35- 900(2953)(1.6) 1388(4554)(1.9) 1678(5505)(2.2)

BATHURST ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(3)	1470 (4823)	1530 (5020) (4.24%)	1470 (4823)	1470 (4823)
33	(3)	1470 (4823)	1530 (5020) (4.37%)	1470 (4823)	1470 (4823)

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

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- 1266(4153)(1.6) 1359(4459)(1.9) 1415(4642)(2.2) 1451(4760)(2.5) 1500(4921)(3.3)

RWY33- 1189(3901)(1.6) 1261(4137)(1.9) 1318(4324)(2.2) 1364(4475)(2.5) 1454(4770)(3.3)

BEDOURIE

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(2)	1810 (5938)	1870 (6135) (2.1%)	1810 (5938)	1810 (5938)
32	(2)	1810 (5938)	1870 (6135) (1.27%)	1810 (5938)	1810 (5938)

RWY 14/32 OBST SFC conducted using 150M inner edge WID.

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) (2.12%)	2000 (6562)	2000 (6562)
19	(3)	2000 (6562)	2060 (6758) (1.33%)	2000 (6562)	2000 (6562)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY01- 1897(6224)(1.6) 2003(6571)(1.9)

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

SUPPLEMENTARY TAKEOFF DISTANCES

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

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)
32	(3)	1732 (5682)	1792 (5879) (3.1%)	1732 (5682)	1732 (5682)
Slope 0.1% down to SE. RWY WID 30 RWS WID 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) (1.98%)	2200 (7218)	2200 (7218)
26	(4)	2200 (7218)	2260 (7415) (1.2%)	2200 (7218)	2200 (7218)
Slope 0.66% down to W. RWY WID 45 RWS WID 300 Graded 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08- 2244(7362)(1.9)

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)
23	(3)	1830 (6004)	1890 (6201) (3.33%)	1830 (6004)	1830 (6004)
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) (4.65%)	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 80					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04-	1136(3727)(1.6)	1199(3934)(1.9)	1247(4091)(2.2)	1266(4153)(2.5)	1300(4265)(3.3)
	1338(4390)(5.0)				
RWY22-	937(3074)(1.6)	1167(3829)(1.9)	1266(4153)(2.2)	1302(4272)(2.5)	1338(4390)(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)
19R	(4)	3300 (10827)	3360 (11023) (1.54%)	3300 (10827)	3300 (10827)
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)
RWY 01R DTHR 60M (197FT).					
19L	(4)	3560 (11680)	3620 (11876) (1.49%)	3560 (11680)	3560 (11680)
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) (3.13%)	2870 (9416)	2870 (9416)
All grooved asphalt except RWY 12 THR and turning node, which is grooved concrete (200M (656))					
30	(4)	2870 (9416)	2930 (9613) (3.08%)	2870 (9416)	2870 (9416)
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-	1161(3809)(2.5)
RWY30-	2808(9212)(1.6) 2843(9327)(1.9) 2872(9422)(2.2) 2895(9498)(2.5)

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) (3.04%)	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) (2.63%)	1100 (3609)	1100 (3609)

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

10L	(3)	1556 (5105)	1637 (5371) (3.55%)	1556 (5105)	1406 (4613)
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RWY 10L DTHR 150M

28R	(3)	1577 (5174)	1727 (5666) (3.15%)	1577 (5174)	1349 (4426)
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RWY 28R DTHR 228M

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

10R	(2)	1100 (3609)	1160 (3806) (3.8%)	1100 (3609)	1100 (3609)
28L	(2)	1100 (3609)	1160 (3806) (3.65%)	1100 (3609)	1100 (3609)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04L-	1087(3566)(2.2)	1254(4114)(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-	827(2713)(2.2)	1068(3504)(2.5)		
RWY10L-	889(2917)(1.9)	1102(3615)(2.2)	1264(4147)(2.5)	1552(5092)(3.3)
RWY28R-	858(2815)(1.6)	1108(3635)(1.9)	1290(4232)(2.2)	1428(4685)(2.5)
RWY10R-	1079(3540)(3.3)			
RWY28L-	864(2835)(2.2)	957(3140)(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 1349(4426)	reduce all DIST by 228(748)

BROKEN HILL

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	2512 (8241)	2572 (8438) (2.25%)	2512 (8241)	2512 (8241)
23	(3)	2512 (8241)	2572 (8438) (2.45%)	2512 (8241)	2512 (8241)

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) (2.68%)	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-	2187(7175)(1.6)	2425(7956)(1.9)	2559(8396)(2.2)	
RWY23-	2424(7953)(1.6)	2495(8186)(1.9)	2542(8340)(2.2)	
RWY14-	1021(3350)(1.6)			
RWY32-	877(2877)(1.9)	965(3166)(2.2)	1030(3379)(2.5)	

BROOME/INTL

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(4)	2404 (7887)	2464 (8084) (2.47%)	2404 (7887)	2270 (7447)
28	(4)	2324 (7625)	2384 (7821) (1.86%)	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- 2243(7359)(1.6) 2333(7654)(1.9) 2415(7923)(2.2)

RWY28- 2357(7733)(1.6)

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 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)
25	(2)	1219 (3999)	1279 (4196) (5.26%)	1219 (3999)	1015 (3330)

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) (3.26%)	1128 (3701)	1128 (3701)
25	(2)	1128 (3701)	1188 (3898) (3.6%)	1128 (3701)	1128 (3701)

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

14 (3) 2000 (6562) 2090 (6857) (1.89%) 2000 (6562) 2000 (6562)

32 (3) 2000 (6562) 2090 (6857) (3.83%) 2000 (6562) 2000 (6562)

Slope Level. RWY WID 30 RWS WID 150 Graded 150

SUPPLEMENTARY TAKEOFF DISTANCES

RWY07- 829(2720)(1.6) 975(3199)(1.9) 1037(3402)(2.2) 1090(3576)(2.5)

RWY25- 867(2844)(1.9) 990(3248)(2.2) 1051(3448)(2.5) 1160(3806)(3.3)

RWY14- 1998(6555)(1.6)

RWY32- 1734(5689)(1.6) 1872(6142)(1.9) 1990(6529)(2.2) 2034(6673)(2.5) 2076(6811)(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)
		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)
		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) (1.34%)	2460 (8071)	2460 (8071)
21	(4)	2460 (8071)	2520 (8268) (2.39%)	2460 (8071)	2460 (8071)
		Slope Level. RWY WID 45 RWS WID 280 Graded 150			

SUPPLEMENTARY TAKEOFF DISTANCES

RWY21-	2000(6562)(1.6)	2247(7372)(1.9)	2427(7963)(2.2)		
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CAIRNS/CAIRNS INTL

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(4)	3156 (10354)	3256 (10682) (6.93%)	3156 (10354)	3156 (10354)
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)
RWS variation - RWY 33 (South end) is 180M, increased to 300M at 1352M FM THR. RWY 15 (North end) is 300M, reduced to 180M at 1804M FM THR.					
Slope Level. RWY WID 45 RWS WID 300 Graded 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY15-	2933(9623)(1.6)	3046(9993)(1.9)	3084(10118)(2.2)	3113(10213)(2.5)	3169(10397)(3.3)
	3226(10584)(5.0)				
RWY33-	2603(8540)(1.6)	2886(9468)(1.9)	3092(10144)(2.2)	3163(10377)(2.5)	3212(10538)(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) (4.99%)	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) (4.31%)	723 (2372)	723 (2372)
28	(1)	723 (2372)	753 (2470) (4.93%)	723 (2372)	723 (2372)
Slope 0.2% down to NW. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY06-	1050(3445)(2.5)	1280(4199)(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) (2.71%)	1238 (4062)	1238 (4062)
31	(1)	1238 (4062)	1277 (4190) (1.84%)	1238 (4062)	1238 (4062)
Slope level. RWY WID 18 RWS WID 60					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY13-	1107(3632)(1.6)	1170(3839)(1.9)	1215(3986)(2.2)	1249(4098)(2.5)	
RWY31-	1194(3917)(1.6)				

CANBERRA

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(2)	1679 (5508)	1739 (5705) (4.93%)	1679 (5508)	1319 (4327)
		1. RWY 12 DTHR 360M.			
		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) (3.69%)	1679 (5508)	1614 (5295)
		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) (2.29%)	2983 (9787)	2983 (9787)
		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)
		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-	983(3225)(2.2)	1269(4163)(2.5)	1704(5590)(3.3)
RWY17-	1771(5810)(1.9)	3048(10000)(2.2)	
RWY35-	1181(3875)(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) (1.38%)	2000 (6562)	2000 (6562)
26	(3)	2000 (6562)	2060 (6758) (1.53%)	2000 (6562)	2000 (6562)
		Slope 0.02% down to W. RWY WID 30 RWS WID 150 Graded 90			

CARNARVON

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1619 (5312)	1679 (5508) (2.08%)	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) (1.85%)	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-	1378(4521)(1.6)	1584(5197)(1.9)			
RWY22-	1176(3858)(1.6)	1308(4291)(1.9)	1406(4613)(2.2)	1481(4859)(2.5)	1617(5305)(3.3)
RWY18-	1103(3619)(1.6)				
RWY36-	925(3035)(1.9)	1020(3346)(2.2)	1092(3583)(2.5)	1185(3888)(3.3)	

CAROSUE DAM

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	2000 (6562)	2060 (6758) (2.03%)	2000 (6562)	2000 (6562)
24	(3)	2000 (6562)	2060 (6758) (2.25%)	2000 (6562)	2000 (6562)
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-	1982(6503)(1.6)	2040(6693)(1.9)			
RWY24-	1948(6391)(1.6)	2007(6585)(1.9)	2052(6732)(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

RWY	(CN)	TORA	TODA	ASDA	LDA
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) (2.01%)	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-	1789(5869)(1.6) 1805(5922)(1.9)

CESSNOCK

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1524 (5000)	1676 (5499) (3.25%)	1524 (5000)	1524 (5000)
30	(3)	1524 (5000)	1676 (5499) (3.4%)	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) (2.45%)	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-	1229(4032)(1.6) 1380(4528)(1.9) 1483(4865)(2.2) 1557(5108)(2.5)
RWY30-	1358(4455)(1.6) 1505(4938)(1.9) 1584(5197)(2.2) 1613(5292)(2.5) 1671(5482)(3.3)
RWY18-	886(2907)(1.6) 994(3261)(1.9) 1074(3524)(2.2)
RWY36-	1076(3530)(1.6)

CHARTERS TOWERS

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(1)	1005 (3297)	1065 (3494) (5.75%)	1005 (3297)	1005 (3297)
19	(1)	1005 (3297)	1065 (3494) (2.75%)	1005 (3297)	1005 (3297)
Slope Level. RWY WID 23 RWS WID 60					
06	(3)	1736 (5695)	1796 (5892) (3.2%)	1736 (5695)	1736 (5695)
24	(3)	1736 (5695)	1796 (5892) (3.23%)	1736 (5695)	1736 (5695)
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-	835(2739)(1.9) 875(2871)(2.2) 907(2976)(2.5) 969(3179)(3.3) 1044(3425)(5.0)
RWY19-	836(2743)(2.5)
RWY06-	1528(5013)(1.6) 1627(5338)(1.9) 1675(5495)(2.2) 1713(5620)(2.5)
RWY24-	844(2769)(2.2) 1222(4009)(2.5)

CHILLAGOE

RWY	(CN)	TORA	TODA	ASDA	LDA
17	(1)	981 (3218)	1041 (3415) (3.75%)	981 (3218)	981 (3218)
35	(1)	981 (3218)	1041 (3415) (3.26%)	981 (3218)	981 (3218)

Slope 0.9% down to N. RWY WID 18 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY17-	941(3087)(3.3)				
RWY35-	806(2644)(1.6)	852(2795)(1.9)	897(2943)(2.2)	943(3094)(2.5)	

CHINCHILLA

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(1)	593 (1946)	623 (2044) (3.62%)	593 (1946)	593 (1946)
21	(1)	593 (1946)	623 (2044) (4.74%)	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) (2.73%)	1205 (3953)	1069 (3507)
32	(1)	1069 (3507)	1265 (4150) (3.23%)	1205 (3953)	1069 (3507)

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-	942(3091)(1.9)	1098(3602)(2.2)	1205(3953)(2.5)		
RWY32-	946(3104)(1.9)	1059(3474)(2.2)	1142(3747)(2.5)		

CHRISTMAS CREEK

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(4)	2500 (8202)	2560 (8399) (1.99%)	2500 (8202)	2500 (8202)
27	(4)	2500 (8202)	2560 (8399) (1.71%)	2500 (8202)	2500 (8202)

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) (1.85%)	2103 (6900)	2103 (6900)
36	(4)	2103 (6900)	2164 (7100) (3.31%)	2103 (6900)	2103 (6900)

1. APCH SFC based on 150M inner edge.

2. Transition SFC infringed both sides of RWY.

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

RWY18-	2150(7054)(1.6)				
RWY36-	1243(4078)(2.2)	1912(6273)(2.5)	2163(7096)(3.3)		

CLERMONT

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(2)	1068 (3504)	1128 (3701) (5.35%)	1068 (3504)	1068 (3504)
19	(2)	1068 (3504)	1128 (3701) (3.9%)	1068 (3504)	1068 (3504)
Slope 0.9% down to N. RWY WID 30 RWS WID 90					
15	(2)	1311 (4301)	1371 (4498) (2.7%)	1311 (4301)	1311 (4301)
33	(2)	1311 (4301)	1371 (4498) (10.4%)	1311 (4301)	1311 (4301)

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-	802(2631)(2.2)	866(2841)(2.5)	991(3251)(3.3)	1120(3674)(5.0)	
RWY19-	818(2684)(2.5)	1040(3412)(3.3)			
RWY15-	1191(3907)(1.6)	1258(4127)(1.9)	1309(4295)(2.2)	1349(4426)(2.5)	
RWY33-	850(2789)(1.6)	964(3163)(1.9)	1041(3415)(2.2)	1097(3599)(2.5)	1191(3907)(3.3)
	1284(4213)(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) (3.75%)	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-	828(2717)(2.2)	1018(3340)(2.5)	1325(4347)(3.3)		
RWY18-	898(2946)(1.6)				

CLONCURRY

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(1)	1157 (3796)	1217 (3993) (1.95%)	1157 (3796)	1157 (3796)
24	(1)	1157 (3796)	1217 (3993) (2.15%)	1157 (3796)	1157 (3796)
Slope Level. RWY WID 18 RWS WID 90					
12	(3)	2000 (6562)	2060 (6758) (1.7%)	2000 (6562)	2000 (6562)
30	(3)	2000 (6562)	2060 (6758) (2.9%)	2000 (6562)	2000 (6562)
Slope 0.1% down to NW. RWY WID 30 RWS WID 150 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY06-	1153(3783)(1.6)	1210(3970)(1.9)			
RWY24-	1083(3553)(1.6)	1166(3825)(1.9)			
RWY12-	2029(6657)(1.6)				
RWY30-	1548(5079)(1.6)	1864(6115)(1.9)	1954(6411)(2.2)	2007(6585)(2.5)	

COBAR

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1696 (5564)	1756 (5761) (7.4%)	1696 (5564)	1607 (5272)
RWY 05 DTHR 89M.					
23	(3)	1696 (5564)	1756 (5761) (2.39%)	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) (5.57%)	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-	1170(3839)(1.6)	1326(4350)(1.9)	1434(4705)(2.2)	1512(4961)(2.5)	1624(5328)(3.3)
	1706(5597)(5.0)				
RWY23-	1678(5505)(1.6)	1719(5640)(1.9)	1750(5741)(2.2)		
RWY17-	845(2772)(3.3)	945(3100)(5.0)			
RWY35-	890(2920)(1.6)				

COCOS (Keeling) ISLANDS

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(4)	2441 (8008)	2501 (8205) (2.09%)	2441 (8008)	2441 (8008)
33	(4)	2441 (8008)	2502 (8209) (1.8%)	2441 (8008)	2441 (8008)

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-	2305(7562)(1.6)	2437(7995)(1.9)			
RWY33-	2374(7789)(1.6)				

COEN

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(2)	1389 (4557)	1449 (4754) (2.78%)	1389 (4557)	1389 (4557)
29	(2)	1389 (4557)	1449 (4754) (1.9%)	1389 (4557)	1389 (4557)

Slope 0.29% down to W. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11-	914(2999)(1.6)	1057(3468)(1.9)	1155(3789)(2.2)	1221(4006)(2.5)	
RWY29-	1358(4455)(1.6)				

COFFS HARBOUR

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(4)	2080 (6824)	2140 (7021) (3.06%)	2080 (6824)	2080 (6824)
21	(4)	2080 (6824)	2140 (7021) (2.7%)	2080 (6824)	2080 (6824)

Slope 0.1% down to SW. RWY WID 45 RWS WID 150

10	(1)	851 (2792)	881 (2890) (2.86%)	851 (2792)	726 (2382)
RWY 10 DTHR 125M.					
28	(1)	851 (2792)	881 (2890) (6.06%)	851 (2792)	851 (2792)

Slope 0.3% down to W. RWY WID 18 RWS WID 80

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03-	919(3015)(1.9)	1366(4482)(2.2)	1700(5577)(2.5)		
RWY21-	1419(4655)(1.6)	1718(5636)(1.9)	1955(6414)(2.2)	2082(6831)(2.5)	
RWY10-	809(2654)(2.5)				
RWY28-	849(2785)(5.0)				

CONDOBOLIN

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	1372 (4501)	1462 (4797) (4.35%)	1372 (4501)	1372 (4501)
19	(3)	1372 (4501)	1552 (5092) (2.63%)	1372 (4501)	1372 (4501)
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) (2.32%)	1203 (3947)	1203 (3947)
28	(2)	1203 (3947)	1263 (4144) (2.94%)	1203 (3947)	1203 (3947)
Slope 0.2% centre down to both ends. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY01-	901(2956)(2.2)	1051(3448)(2.5)	1297(4255)(3.3)		
RWY19-	1388(4554)(1.6)	1454(4770)(1.9)	1502(4928)(2.2)	1539(5049)(2.5)	
RWY10-	1077(3533)(1.6)	1169(3835)(1.9)	1246(4088)(2.2)		
RWY28-	938(3077)(1.6)	1050(3445)(1.9)	1125(3691)(2.2)	1186(3891)(2.5)	

COOBER PEDY

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1627 (5338)	1687 (5535) (3.67%)	1567 (5141)	1567 (5141)
29	(3)	1567 (5141)	1627 (5338) (2.93%)	1627 (5338)	1567 (5141)
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 90M approach and TKOF inner edge WID.					
Slope 0.2% down to E. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11-	1171(3842)(1.6)	1308(4291)(1.9)	1413(4636)(2.2)	1495(4905)(2.5)	1646(5400)(3.3)
RWY29-	925(3035)(1.6)	1195(3921)(1.9)	1372(4501)(2.2)	1491(4892)(2.5)	

COOMA - SNOWY MOUNTAINS

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	2120 (6955)	2180 (7152) (1.4%)	2120 (6955)	1910 (6266)
36	(3)	2120 (6955)	2180 (7152) (4.18%)	2120 (6955)	2120 (6955)

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-	963(3159)(1.9)	1333(4373)(2.2)	1635(5364)(2.5)	2150(7054)(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) (11.08%)	1527 (5010)	1527 (5010)
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 NE of RCL is not taken into account when determining TODA GRAD and STODA.

Slope Level. RWY WID 30 RWS WID 150 Graded 90

12	(1)	580 (1903)	640 (2100) (4.99%)	580 (1903)	580 (1903)
30	(1)	580 (1903)	640 (2100) (1.2%)	580 (1903)	580 (1903)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05- 916(3005)(1.6) 1079(3540)(1.9) 1192(3911)(2.2) 1268(4160)(2.5) 1410(4626)(3.3)
 1522(4993)(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) (3.34%)	1950 (6398)	1800 (5905)
26	(3)	1930 (6332)	2080 (6824) (1.78%)	1930 (6332)	1800 (5905)

1. RWY 26 TKOF SFC area surveyed to 10,000M.

2. RWY 08/26 TORA, TODA & ASDA begin at RWS end.

Slope 0.7% down to W. RWY WID 30 RWS WID 150 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08- 1090(3576)(1.6) 1862(6109)(1.9) 1970(6463)(2.2) 2031(6663)(2.5) 2079(6821)(3.3)
 RWY26- 1991(6532)(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) (3.07%)	855 (2805)	855 (2805)
Slope 0.5% down to W. RWY WID 30 RWS WID 90					
16	(2)	1406 (4613)	1466 (4810) (12.58%)	1406 (4613)	1406 (4613)
34	(2)	1406 (4613)	1466 (4810) (2.9%)	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) (2.01%)	1528 (5013)	1528 (5013)
23	(2)	1528 (5013)	1588 (5210) (3.29%)	1528 (5013)	1528 (5013)
Slope Level. RWY WID 23 RWS WID 150					
14	(1)	1282 (4206)	1342 (4403) (1.69%)	1282 (4206)	1282 (4206)
RWY 14 W side transitional surface infringed by isolated trees.					
32	(1)	1282 (4206)	1342 (4403) (3.02%)	1282 (4206)	1282 (4206)
Slope Level. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05-	1264(4147)(1.6)	1517(4977)(1.9)			
RWY23-	886(2907)(1.6)	1106(3629)(1.9)	1268(4160)(2.2)	1392(4567)(2.5)	
RWY14-	1279(4196)(1.6)				
RWY32-	962(3156)(1.9)	1109(3638)(2.2)	1216(3989)(2.5)		

CORRYONG

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	1401 (4596)	1461 (4793) (1.54%)	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

RWY24-	997(3271)(2.2)	1222(4009)(2.5)			
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COWRA

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(2)	1433 (4701)	1496 (4908) (1.58%)	1433 (4701)	1433 (4701)
31	(2)	1433 (4701)	1496 (4908) (1.88%)	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

RWY31- 1399(4590)(1.6)

CUE

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1980 (6496)	2040 (6693) (4.9%)	1980 (6496)	1980 (6496)
22	(3)	1980 (6496)	2040 (6693) (1.92%)	1980 (6496)	1980 (6496)

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- 1824(5984)(1.6) 1875(6152)(1.9) 1911(6270)(2.2) 1939(6361)(2.5) 1989(6526)(3.3)

RWY22- 1991(6532)(1.6) 2036(6680)(1.9)

CUNDERDIN

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1841 (6040)	1901 (6237) (2.55%)	1841 (6040)	1841 (6040)
23	(3)	1841 (6040)	1901 (6237) (2.64%)	1841 (6040)	1841 (6040)

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

14	(3)	1509 (4951)	1569 (5148) (1.72%)	1509 (4951)	1509 (4951)
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1. OBST FENCE 4FT AGL 6M SE FM RWS END GRAD 20%

32	(3)	1509 (4951)	1569 (5148) (1.6%)	1509 (4951)	1509 (4951)
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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)
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30	(3)	1733 (5686)	1793 (5882) (3.73%)	1733 (5686)	1733 (5686)
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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) (1.41%)	1600 (5249)	1600 (5249)
29	(3)	1600 (5249)	1660 (5446) (1.77%)	1600 (5249)	1600 (5249)

Surveys are conducted using 90M baseline.

Slope 0.184% down to NW. RWY WID 30 RWS WID 90 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11- 1632(5354)(1.6) 1658(5440)(1.9)
 RWY29- 1635(5364)(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) (2.13%)	3354 (11004)	3354 (11004)
29	(4)	3354 (11004)	3444 (11299) (1.2%)	3354 (11004)	3354 (11004)

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 60 RWS WID 300 Graded 150

18	(2)	1524 (5000)	1584 (5197) (1.69%)	1524 (5000)	1524 (5000)
36	(2)	1524 (5000)	1584 (5197) (1.33%)	1524 (5000)	1524 (5000)

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- 3080(10105)(1.6) 3295(10810)(1.9)
 RWY18- 1567(5141)(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) (1.88%)	1158 (3799)	1158 (3799)
23	(1)	1158 (3799)	1218 (3996) (2.95%)	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) (3.07%)	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) (1.2%)	1736 (5695)	1736 (5695)
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Fence 1826M FM SOT and 78M L and R of CL 5FT ABV end of TODA.

Fence 1885M FM SOT and on extended CL 6FT ABV end of TODA.

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05- 1007(3304)(1.6)
 RWY23- 1175(3855)(1.6) 1189(3901)(1.9) 1200(3937)(2.2) 1208(3963)(2.5)
 RWY11- 1334(4377)(1.6) 1501(4924)(1.9) 1621(5318)(2.2) 1711(5613)(2.5)

DEVONPORT

RWY	(CN)	TORA	TODA	ASDA	LDA
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) (2.75%)	1838 (6030)	1838 (6030)
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Slope 0.1% down to W. RWY WID 45 RWS WID 300

14	(2)	880 (2887)	940 (3084) (4.05%)	880 (2887)	880 (2887)
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32	(2)	880 (2887)	940 (3084) (3.18%)	880 (2887)	880 (2887)
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Slope 0.6% down to NW. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY06- 1204(3950)(1.9) 1780(5840)(2.2)
 RWY24- 1035(3396)(1.9) 1465(4806)(2.2) 1821(5974)(2.5)
 RWY32- 824(2703)(1.9) 858(2815)(2.2) 886(2907)(2.5)

DIRRANBANDI

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(2)	1217 (3993)	1277 (4190) (2.8%)	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-	838(2749)(1.9)	1026(3366)(2.2)	1167(3829)(2.5)
RWY19-	1270(4167)(1.6)		

DJARINDJIN/LOMBADINA

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1656 (5433)	1716 (5630) (3.24%)	1656 (5433)	1656 (5433)
30	(3)	1656 (5433)	1716 (5630) (2.84%)	1656 (5433)	1656 (5433)

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-	1302(4272)(1.6)	1443(4734)(1.9)	1546(5072)(2.2)	1625(5331)(2.5)
RWY30-	1398(4587)(1.6)	1515(4970)(1.9)	1599(5246)(2.2)	1663(5456)(2.5)

DUBBO

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1708 (5604)	1768 (5800) (1.94%)	1708 (5604)	1708 (5604)
23	(3)	1708 (5604)	1768 (5800) (2.7%)	1708 (5604)	1708 (5604)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05-	1740(5709)(1.6)				
RWY23-	1201(3940)(1.9)	1502(4928)(2.2)	1684(5525)(2.5)		
RWY11-	989(3245)(2.2)	1124(3688)(2.5)			
RWY29-	872(2861)(1.9)	935(3068)(2.2)	985(3232)(2.5)	1086(3563)(3.3)	

DUKETON GOLD

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	2000 (6562)	2060 (6758) (2.54%)	2000 (6562)	2000 (6562)
36	(3)	2000 (6562)	2060 (6758) (2.45%)	2000 (6562)	2000 (6562)

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-	1886(6188)(1.6)	1964(6443)(1.9)	2017(6617)(2.2)	2055(6742)(2.5)	
RWY36-	1953(6407)(1.6)	2000(6562)(1.9)	2035(6676)(2.2)		

EAST JAURDI

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	1900 (6234)	1960 (6430) (2.73%)	1900 (6234)	1900 (6234)
26	(3)	1900 (6234)	1960 (6430) (2.73%)	1900 (6234)	1900 (6234)

Slope 0.79% down to E. RWY WID 30 RWS WID 150 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08-	1851(6073)(1.6)	1889(6197)(1.9)	1919(6296)(2.2)	1943(6375)(2.5)
RWY26-	1126(3694)(1.9)	1539(5049)(2.2)	1807(5928)(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) (5.3%)	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)
35	(1)	1102 (3615)	1162 (3812) (2.56%)	1102 (3615)	1102 (3615)

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

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(2)	1440 (4724)	1500 (4921) (3.3%)	1440 (4724)	1440 (4724)
28	(2)	1440 (4724)	1500 (4921) (1.37%)	1440 (4724)	1440 (4724)

- RWY 10/28 OBST surveys are conducted using 90M inner edge width.
 - 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-	1005(3297)(1.9)	1167(3829)(2.2)	1289(4229)(2.5)
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ELIWANA

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	2500 (8202)	2560 (8399) (1.78%)	2500 (8202)	2500 (8202)
28	(3)	2500 (8202)	2560 (8399) (1.8%)	2500 (8202)	2500 (8202)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY10-	1695(5561)(1.6)
RWY28-	1893(6211)(1.6)

EMERALD

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	1900 (6234)	1960 (6430) (1.5%)	1900 (6234)	1900 (6234)
		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)
		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)
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ESPERANCE

RWY	(CN)	TORA	TODA		ASDA	LDA
03	(1)	1178 (3865)	1238 (4062)	(3.26%)	1178 (3865)	1178 (3865)
21	(1)	1178 (3865)	1238 (4062)	(1.2%)	1178 (3865)	1178 (3865)
Slope NE end 0.3% down to SW, SW end level. RWY WID 18 RWS WID 60 Graded 90						
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 Graded 90						

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03- 908(2979)(2.2) 1033(3389)(2.5)
 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) (1.46%)	1300 (4265)	1300 (4265)
19	(2)	1300 (4265)	1360 (4462) (1.91%)	1300 (4265)	1300 (4265)

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- 1314(4311)(1.6) 1358(4455)(1.9)

FLINDERS ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1070 (3510)	1130 (3707) (2.34%)	1070 (3510)	1070 (3510)
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.					
23	(2)	1070 (3510)	1130 (3707) (1.74%)	1070 (3510)	1014 (3327)
RWY 23 DTHR 56 (184). Slope 0.5% down to SW. RWY WID 30 RWS WID 90					
14	(3)	1720 (5643)	1780 (5840) (5.97%)	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.					
32	(3)	1720 (5643)	1780 (5840) (3.72%)	1720 (5643)	1720 (5643)
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- 1748(5735)(3.3) 1772(5814)(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)

Unlit OBST fence 4FT ABV RWY and 63M off the eastern end of the 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)
27	(3)	1349 (4426)	1409 (4623) (2.87%)	1349 (4426)	1349 (4426)
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)
36	(3)	1519 (4984)	1829 (6001) (1.2%)	1519 (4984)	1519 (4984)
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.

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)

FORTESCUE DAVE FORREST

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	2300 (7546)	2360 (7743) (2.3%)	2300 (7546)	2300 (7546)
30	(3)	2300 (7546)	2360 (7743) (2.11%)	2300 (7546)	2300 (7546)

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- 1614(5295)(1.6) 2047(6716)(1.9) 2339(7674)(2.2)

RWY30- 1729(5673)(1.6) 2216(7270)(1.9)

GARDEN POINT

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1315 (4314)	1375 (4511) (4.92%)	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-	871(2858)(1.9)	1013(3323)(2.2)	1107(3632)(2.5)	1252(4108)(3.3)
RWY22-	941(3087)(1.6)	1032(3386)(1.9)	1104(3622)(2.2)	1163(3816)(2.5) 1276(4186)(3.3)

GAYNDAH

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	1265 (4150)	1325 (4347) (3.35%)	1265 (4150)	1265 (4150)
24	(2)	1265 (4150)	1325 (4347) (3.4%)	1265 (4150)	1265 (4150)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY06-	958(3143)(2.2)	1129(3704)(2.5)	1323(4340)(3.3)
RWY24-	884(2900)(1.9)	1035(3396)(2.2)	1146(3760)(2.5) 1314(4311)(3.3)

GEORGETOWN (QLD)

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(1)	1158 (3799)	1218 (3996) (3.65%)	1158 (3799)	1158 (3799)
24	(1)	1158 (3799)	1218 (3996) (3.7%)	1158 (3799)	1158 (3799)

Fence, HGT 1.4M, 50M either side of RCL, infringes TNS by up to 9FT west 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-	944(3097)(1.6)	1027(3369)(1.9)	1072(3517)(2.2)	1108(3635)(2.5) 1191(3907)(3.3)
RWY24-	920(3018)(2.2)	1021(3350)(2.5)	1187(3894)(3.3)	

GERALDTON

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(4)	2389 (7838)	2449 (8035) (1.88%)	2389 (7838)	2389 (7838)
21	(4)	2389 (7838)	2449 (8035) (1.69%)	2389 (7838)	2389 (7838)

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

08	(1)	900 (2953)	960 (3150) (2.19%)	900 (2953)	900 (2953)
26	(1)	900 (2953)	960 (3150) (3.12%)	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) (4.55%)	844 (2769)	844 (2769)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03-	2369(7772)(1.6)	
RWY21-	2349(7707)(1.6)	
RWY26-	839(2753)(2.2)	886(2907)(2.5)
RWY32-	859(2818)(3.3)	

GINBATA

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(4)	2500 (8202)	2560 (8399) (1.54%)	2500 (8202)	2500 (8202)
27	(4)	2500 (8202)	2560 (8399) (1.2%)	2500 (8202)	2500 (8202)

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) (4.42%)	1885 (6184)	1780 (5840)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY10-	1068(3504)(1.9)	1391(4564)(2.2)	1605(5266)(2.5)	1891(6204)(3.3)
RWY28-	822(2697)(2.5)	1929(6329)(3.3)	1972(6470)(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)
28	(2)	1200 (3937)	1260 (4134) (1.67%)	1200 (3937)	1200 (3937)
Slope 0.2% down to W. RWY WID 30 RWS WID 90					
14	(3)	1498 (4915)	1558 (5111) (2.45%)	1498 (4915)	1498 (4915)
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) (2.73%)	1498 (4915)	1498 (4915)
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-	911(2989)(1.6)				
RWY28-	1221(4006)(1.6)				
RWY14-	1125(3691)(2.2)				
RWY32-	952(3123)(1.6)	1274(4180)(1.9)	1418(4652)(2.2)	1505(4938)(2.5)	

GNOWANGERUP

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(2)	1499 (4918)	1559 (5115) (2.92%)	1499 (4918)	1499 (4918)
30	(2)	1499 (4918)	1559 (5115) (4.81%)	1499 (4918)	1499 (4918)
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

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(4)	2342 (7684)	2402 (7880) (3.7%)	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) (3.5%)	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) (4.06%)	582 (1909)	582 (1909)
Slope 0.2% down to S. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY14-	1727(5666)(1.6)	1972(6470)(1.9)	2090(6857)(2.2)	2182(7159)(2.5)	2347(7700)(3.3)
RWY32-	1457(4780)(2.2)	1977(6486)(2.5)	2519(8264)(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

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(2)	1396 (4580)	1456 (4777) (3.16%)	1396 (4580)	1396 (4580)
29	(2)	1396 (4580)	1456 (4777) (1.61%)	1396 (4580)	1396 (4580)

TKOF splay baseline 90M.

Slope 0.5% down to E. RWY WID 30 RWS WID 90 Graded 80

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11-	1311(4301)(1.6)	1383(4537)(1.9)	1420(4659)(2.2)	1433(4701)(2.5)
RWY29-	1445(4741)(1.6)			

GOODOOGA

RWY	(CN)	TORA	TODA	ASDA	LDA
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%)	1340 (4396)	1340 (4396)
22	(2)	1340 (4396)	1400 (4593) (2.55%)	1340 (4396)	1340 (4396)

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

12	(1)	795 (2608)	855 (2805) (5%)	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-	1051(3448)(1.6)	1169(3835)(1.9)	1255(4117)(2.2)	1320(4331)(2.5)
RWY22-	1034(3392)(1.6)	1205(3953)(1.9)	1310(4298)(2.2)	1389(4557)(2.5)

GOULBURN

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1281 (4203)	1342 (4403) (2.54%)	1281 (4203)	1281 (4203)
22	(3)	1281 (4203)	1342 (4403) (2.38%)	1281 (4203)	1281 (4203)

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) (3.87%)	679 (2228)	679 (2228)
26	(1)	679 (2228)	739 (2425) (3.1%)	679 (2228)	679 (2228)

Slope 0.9% down to E. RWY WID 30 RWS WID 70

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04-	1034(3392)(1.9)	1191(3907)(2.2)	1325(4347)(2.5)	
RWY22-	1022(3353)(2.2)			

GOVE

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(4)	2208 (7244)	2268 (7441) (1.59%)	2208 (7244)	2208 (7244)
31	(4)	2208 (7244)	2268 (7441) (2.52%)	2208 (7244)	2208 (7244)

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

RWY31-	2030(6660)(1.6)	2141(7024)(1.9)	2214(7264)(2.2)	2266(7434)(2.5)
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GRAFTON

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	1709 (5607)	1769 (5804) (5.25%)	1709 (5607)	1709 (5607)
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)
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- 1018(3340)(1.9) 1267(4157)(2.2) 1411(4629)(2.5) 1601(5253)(3.3) 1756(5761)(5.0)

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) (5.01%)	600 (1968)	600 (1968)
36	(1)	600 (1968)	660 (2165) (2.12%)	600 (1968)	600 (1968)
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)
 RWY24- 808(2651)(1.6) 1160(3806)(1.9) 1394(4573)(2.2) 1583(5194)(2.5)

GROOTE EYLANDT

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1903 (6243)	1963 (6440) (3.02%)	1903 (6243)	1903 (6243)
28	(3)	1903 (6243)	1963 (6440) (2.25%)	1903 (6243)	1903 (6243)
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) 1631(5351)(2.2) 1786(5860)(2.5)
 RWY28- 1687(5535)(1.6) 1829(6001)(1.9) 1945(6381)(2.2)

GRUYERE

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	2100 (6890)	2160 (7087) (2.32%)	2100 (6890)	2100 (6890)
24	(3)	2100 (6890)	2160 (7087) (2.6%)	2100 (6890)	2100 (6890)
Slope 0.05% down to the NE. RWY WID 30 RWS WID 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY06- 2053(6735)(1.6) 2115(6939)(1.9) 2148(7047)(2.2)
 RWY24- 1964(6443)(1.6) 2044(6706)(1.9) 2102(6896)(2.2) 2147(7044)(2.5)

GUDAI-DARRI MINE

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(4)	2200 (7218)	2260 (7415) (1.2%)	2200 (7218)	2200 (7218)
30	(4)	2200 (7218)	2260 (7415) (2.02%)	2200 (7218)	2200 (7218)
Slope 0.24% down to the E. RWY WID 45 RWS WID 300 Graded 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY30- 2171(7123)(1.6) 2240(7349)(1.9)

GUNNEDAH

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1646 (5400)	1706 (5597) (3.59%)	1646 (5400)	1646 (5400)
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)
Slope 0.1% down to W. RWY WID 30 RWS WID 150 Graded 90					
17	(1)	541 (1775)	592 (1942) (4.34%)	541 (1775)	541 (1775)
35	(1)	541 (1775)	601 (1972) (1.39%)	541 (1775)	541 (1775)
Slope Level. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11-	1127(3697)(1.6)	1407(4616)(1.9)	1497(4911)(2.2)	1563(5128)(2.5)	1681(5515)(3.3)
RWY29-	1386(4547)(1.6)	1551(5089)(1.9)	1672(5485)(2.2)		

HALLS CREEK

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1475 (4839)	1535 (5036) (1.84%)	1475 (4839)	1475 (4839)
22	(3)	1475 (4839)	1535 (5036) (2.95%)	1475 (4839)	1475 (4839)
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) (4.6%)	946 (3104)	946 (3104)
RWY 08 fence 1,046M FM SOT and 4FT ABV RWY end.					
26	(1)	946 (3104)	976 (3202) (4.67%)	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-	1439(4721)(1.6)				
RWY22-	1189(3901)(1.6)	1344(4409)(1.9)	1424(4672)(2.2)	1478(4849)(2.5)	
RWY08-	800(2625)(1.6)	835(2739)(1.9)	863(2831)(2.2)	886(2907)(2.5)	931(3054)(3.3)
RWY26-	837(2746)(3.3)				

HAMILTON

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1233 (4045)	1293 (4242) (2.85%)	1233 (4045)	1233 (4045)
28	(3)	1233 (4045)	1293 (4242) (2.52%)	1233 (4045)	1233 (4045)
Slope 0.6% down to E, 0.8 down to W. RWY WID 30 RWS WID 90					
17	(3)	1704 (5590)	1764 (5787) (1.79%)	1704 (5590)	1704 (5590)
35	(3)	1704 (5590)	1764 (5787) (2.61%)	1704 (5590)	1704 (5590)
Slope 0.5% down to N. RWY WID 30 RWS WID 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY10-	1170(3839)(1.6)	1209(3966)(1.9)	1238(4062)(2.2)	1267(4157)(2.5)	
RWY28-	1017(3337)(1.6)	1126(3694)(1.9)	1207(3960)(2.2)	1287(4222)(2.5)	
RWY17-	1537(5043)(1.6)				
RWY35-	1420(4659)(1.6)	1538(5046)(1.9)	1638(5374)(2.2)	1728(5669)(2.5)	

HAMILTON ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	1766 (5794)	1841 (6040) (1.69%)	1766 (5794)	1706 (5597)
Transient yacht masts may infringe RWY 14 APCH SFC clearance - Caution RQ. TKOF run commences at end of turning node.					
32	(3)	1766 (5794)	1826 (5991) (2.03%)	1766 (5794)	1706 (5597)
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-	881(2890)(1.6)	1594(5230)(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) (4.41%)	2000 (6562)	2000 (6562)
29	(3)	2000 (6562)	2060 (6758) (3%)	2000 (6562)	2000 (6562)
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-	1554(5098)(1.6)	1692(5551)(1.9)	1786(5860)(2.2)	1855(6086)(2.5)	1977(6486)(3.3)
RWY29-	959(3146)(1.6)	1518(4980)(1.9)	1744(5722)(2.2)	1880(6168)(2.5)	

HOBART

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(4)	2727 (8947)	2787 (9144) (3.2%)	2727 (8947)	2608 (8556)
RWY 12 DTHR 119M.					
30	(4)	2727 (8947)	2787 (9144) (2.63%)	2727 (8947)	2727 (8947)
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-	2665(8743)(1.6)	2709(8888)(1.9)	2741(8993)(2.2)	2766(9075)(2.5)
RWY30-	2612(8569)(1.9)	2698(8852)(2.2)	2764(9068)(2.5)	

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) (2.76%)	1110 (3642)	1110 (3642)
19	(1)	1110 (3642)	1197 (3927) (3.3%)	1110 (3642)	1110 (3642)

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)
26	(1)	487 (1598)	547 (1795) (1.37%)	487 (1598)	487 (1598)

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-	984(3228)(1.6)	1049(3442)(1.9)	1098(3602)(2.2)	1140(3740)(2.5)
RWY19-	850(2789)(1.6)	963(3159)(1.9)	1040(3412)(2.2)	1095(3592)(2.5)

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) (2.96%)	1389 (4557)	1389 (4557)

1. RWY reference code based on 150M TKOF inner edge WID.

2. OBST trees 110M both left and right of RWY 08/26 CL infringe transitional SFC by up to 20FT.

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) (2.2%)	1235 (4052)	0 (0)

Due to terrain, TKOF RWY 14 and land RWY 32 not AVBL.

Slope 0.9% down to NW. RWY WID 23 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08-	808(2651)(2.2)	1043(3422)(2.5)		
RWY26-	1344(4409)(1.6)	1378(4521)(1.9)	1404(4606)(2.2)	1425(4675)(2.5)
RWY32-	1229(4032)(1.6)	1269(4163)(1.9)		

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)
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RWY 17 THR displaced 98(322).

35	(2)	999 (3278)	1157 (3796) (1.2%)	999 (3278)	999 (3278)
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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)
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HUGHENDEN

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(1)	1307 (4288)	1367 (4485) (2.45%)	1307 (4288)	1307 (4288)
24	(1)	1307 (4288)	1367 (4485) (3.75%)	1307 (4288)	1307 (4288)
Slope 0.1% down to SW. RWY WID 18 RWS WID 60					
12	(3)	1644 (5394)	1704 (5590) (3.2%)	1644 (5394)	1644 (5394)
30	(3)	1644 (5394)	1704 (5590) (1.54%)	1644 (5394)	1644 (5394)
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)	1332 (4370)	1392 (4567) (2.82%)	1332 (4370)	1332 (4370)
21	(1)	1332 (4370)	1392 (4567) (6.82%)	1332 (4370)	1332 (4370)
Slope 0.3% down to NE. RWY WID 30 RWS WID 90					
14	(2)	1353 (4439)	1413 (4636) (1.6%)	1353 (4439)	1353 (4439)
32	(2)	1353 (4439)	1413 (4636) (3.09%)	1353 (4439)	1353 (4439)
Slope 0.2% down to SE. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03-	1355(4445)(1.6)	1373(4505)(1.9)	1386(4547)(2.2)		
RWY21-	1015(3330)(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) (4.55%)	700 (2297)	700 (2297)
22	(1)	700 (2297)	730 (2395) (4.9%)	700 (2297)	700 (2297)
Slope 1.2% down to SW. RWY WID 18 RWS WID 60 Graded 60					
16	(3)	2114 (6936)	2174 (7132) (5.27%)	2114 (6936)	2114 (6936)
34	(3)	2114 (6936)	2174 (7132) (3.3%)	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-	1726(5663)(1.6)	1912(6273)(1.9)	2022(6634)(2.2)	2104(6903)(2.5)	2140(7021)(3.3)
	2171(7123)(5.0)				
RWY34-	1914(6279)(1.6)	1973(6473)(1.9)	2023(6637)(2.2)	2173(7129)(2.5)	

IRON BRIDGE MINE

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	2500 (8202)	2560 (8399) (2.19%)	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-	2496(8189)(1.6)	2534(8314)(1.9)			
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IVANHOE

RWY	(CN)	TORA	TODA	ASDA	LDA
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)

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JABIRU

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(2)	1402 (4600)	1482 (4862) (3.8%)	1402 (4600)	1402 (4600)
27	(2)	1402 (4600)	1482 (4862) (2.05%)	1402 (4600)	1402 (4600)

1. RWS 09/27 gable markers 80M.

2. RESA dimension 80M x 46M.

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

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	1800 (5905)	1860 (6102) (3.01%)	1800 (5905)	1800 (5905)
32	(3)	1800 (5905)	1860 (6102) (2.16%)	1800 (5905)	1800 (5905)

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

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	2095 (6873)	2155 (7070) (1.41%)	2095 (6873)	2095 (6873)
26	(3)	2095 (6873)	2155 (7070) (2.35%)	2095 (6873)	2095 (6873)

1. RWY 08 and 26 TKOF SFC infringed by fence 5FT, offset APRX 70M FM CL each side.

Slope 0.09% down to E. RWY WID 30 RWS WID 150 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY26- 2044(6706)(1.6) 2105(6906)(1.9) 2141(7024)(2.2)

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KALBARRI

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	1600 (5249)	1660 (5446) (2.06%)	1600 (5249)	1600 (5249)
36	(3)	1600 (5249)	1660 (5446) (1.9%)	1600 (5249)	1600 (5249)

Slope 0.27% Down to N. RWY WID 30 RWS WID 90 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY18- 1541(5056)(1.6) 1614(5295)(1.9)

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)

KAMBALDA

RWY	(CN)	TORA	TODA	ASDA	LDA
16	(3)	1800 (5905)	1860 (6102) (6.58%)	1800 (5905)	1800 (5905)
34	(3)	1800 (5905)	1860 (6102) (2.94%)	1800 (5905)	1800 (5905)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY16- 1700(5577)(1.6) 1744(5722)(1.9) 1764(5787)(2.2) 1780(5840)(2.5) 1810(5938)(3.3)
 1843(6047)(5.0)
 RWY34- 1416(4646)(1.6) 1579(5180)(1.9) 1691(5548)(2.2) 1773(5817)(2.5)

KARARA

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1400 (4593)	1460 (4790) (2.53%)	1400 (4593)	1400 (4593)
30	(3)	1400 (4593)	1460 (4790) (2.48%)	1400 (4593)	1400 (4593)

OBST fence 5FT AGL adjacent RWY 12/30 offset APRX 70M FM CL each side. Infringes TKOF SFC.

Slope 0.16% down to NW. RWY WID 30 RWS WID 150

SUPPLEMENTARY TAKEOFF DISTANCES

RWY12- 1155(3789)(1.6) 1293(4242)(1.9) 1390(4560)(2.2) 1455(4774)(2.5)
 RWY30- 1217(3993)(1.6) 1325(4347)(1.9) 1403(4603)(2.2)

KARLAWINDA MINE

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(3)	2000 (6562)	2060 (6758) (2.42%)	2000 (6562)	2000 (6562)
19	(3)	2000 (6562)	2060 (6758) (2.16%)	2000 (6562)	2000 (6562)

Slope 0.25% down to S. RWY WID 30 RWS WID 280 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY01-	1890(6201)(1.6)	1967(6453)(1.9)	2025(6644)(2.2)
RWY19-	1931(6335)(1.6)	2011(6598)(1.9)	

KARRATHA

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(4)	2280 (7480)	2340 (7677) (1.24%)	2280 (7480)	2280 (7480)
26	(4)	2280 (7480)	2340 (7677) (1.27%)	2280 (7480)	2280 (7480)

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) (3.24%)	1378 (4521)	1378 (4521)
21	(3)	1378 (4521)	1438 (4718) (3.21%)	1378 (4521)	1378 (4521)

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-	1283(4209)(1.6)	1335(4380)(1.9)	1373(4505)(2.2)	1402(4600)(2.5)
RWY21-	985(3232)(1.6)	1132(3714)(1.9)	1240(4068)(2.2)	1323(4340)(2.5)

KATANNING

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(1)	1500 (4921)	1560 (5118) (2.04%)	1500 (4921)	1500 (4921)
25	(1)	1500 (4921)	1560 (5118) (2.2%)	1500 (4921)	1500 (4921)

Slope 0.16% down to E. RWY WID 23 RWS WID 90

13	(1)	900 (2953)	960 (3150) (2.99%)	900 (2953)	900 (2953)
31	(1)	900 (2953)	960 (3150) (2.82%)	900 (2953)	900 (2953)

Slope 0.22% down to SW. RWY WID 18 RWS WID 60

SUPPLEMENTARY TAKEOFF DISTANCES

RWY07-	1349(4426)(1.6)	1500(4921)(1.9)
RWY25-	1151(3776)(1.6)	1390(4560)(1.9)
RWY13-	829(2720)(2.5)	
RWY31-	837(2746)(2.2)	904(2966)(2.5)

KEMPSEY

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1643 (5390)	1703 (5587) (2.4%)	1643 (5390)	1643 (5390)
22	(2)	1643 (5390)	1703 (5587) (4%)	1643 (5390)	1643 (5390)

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-	1409(4623)(1.6)	1548(5079)(1.9)	1650(5413)(2.2)		
RWY22-	954(3130)(1.9)	1151(3776)(2.2)	1299(4262)(2.5)	1561(5121)(3.3)	

KERANG

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	691 (2267)	751 (2464) (2.17%)	691 (2267)	691 (2267)
23	(1)	691 (2267)	751 (2464) (1.81%)	691 (2267)	691 (2267)
14	(1)	1067 (3501)	1127 (3697) (3.23%)	1067 (3501)	1067 (3501)
32	(1)	1067 (3501)	1127 (3697) (3.41%)	1067 (3501)	1067 (3501)

Slope Level. RWY WID 18 RWS WID 90
 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.
 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-	862(2828)(2.2)	962(3156)(2.5)			
RWY32-	970(3182)(2.5)	1118(3668)(3.3)			

KIMBA

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(2)	1580 (5184)	1640 (5381) (1.6%)	1580 (5184)	1580 (5184)
21	(2)	1580 (5184)	1640 (5381) (2.87%)	1580 (5184)	1580 (5184)
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 0.3% down to NE. RWY WID 30 RWS WID 90
 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)
1. OBST fence 5.5FT ABV and 59M E of RWS end not taken into account in calculation of TODA GRAD and STODA.					
2. OBST tree 38.3FT AGL LOC 310M FM SOT RWY 10 and 139M N of RCL infringes TNS by 8.3FT.					
3. OBST fence 12FT AGL LOC 553M to 620M FM SOT RWY 10 and 91M S of RCL infringes TNS by up to 4.2FT.					
4. OBST tree 49FT AGL LOC 490M FM SOT RWY 10 and 164M S of RCL infringes TNS by 7.2FT.					
28	(3)	1585 (5200)	1645 (5397) (1.2%)	1585 (5200)	1585 (5200)
CAUTION: OBST fence, 8.5FT ABV and PARL to RWY, 91M N of RCL, has not been taken into account in the 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) (3.28%)	1105 (3625)	1105 (3625)
35	(2)	1105 (3625)	1165 (3822) (3.23%)	1105 (3625)	1105 (3625)
Slope 0.9% down to N. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY10-	1322(4337)(1.6)	1479(4852)(1.9)	1600(5249)(2.2)
RWY17-	1044(3425)(2.2)	1138(3734)(2.5)	
RWY35-	1070(3510)(1.6)	1093(3586)(1.9)	1116(3661)(2.2) 1134(3720)(2.5)

KINGAROY

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1303 (4275)	1363 (4472) (3.3%)	1303 (4275)	1303 (4275)
23	(2)	1303 (4275)	1363 (4472) (6.18%)	1303 (4275)	1303 (4275)
Slope 1.3% down to SW. RWY WID 30 RWS WID 90					
16	(3)	1600 (5249)	1660 (5446) (5.6%)	1600 (5249)	1600 (5249)
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)
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) (1.83%)	2100 (6890)	2100 (6890)
29	(3)	2100 (6890)	2160 (7087) (1.2%)	2100 (6890)	2100 (6890)

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- 2083(6834)(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) (2.83%)	1829 (6001)	1829 (6001)
30	(3)	1829 (6001)	1889 (6197) (1.46%)	1829 (6001)	1829 (6001)

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

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY12-	1469(4819)(1.6)	1624(5328)(1.9)	1735(5692)(2.2)	1818(5964)(2.5)
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LAKE CARGELLIGO

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1200 (3937)	1260 (4134) (1.44%)	1200 (3937)	1200 (3937)
23	(2)	1200 (3937)	1260 (4134) (2.3%)	1200 (3937)	1200 (3937)
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) (2.66%)	879 (2884)	879 (2884)
30	(2)	879 (2884)	939 (3081) (1.95%)	879 (2884)	879 (2884)
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-	878(2881)(1.6)	910(2986)(1.9)	924(3031)(2.2)	935(3068)(2.5)	
RWY30-	858(2815)(1.6)	931(3054)(1.9)			

LAKE EVELLA

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(1)	1065 (3494)	1125 (3691) (1.38%)	1065 (3494)	1065 (3494)
26	(1)	1065 (3494)	1125 (3691) (2.85%)	1065 (3494)	1065 (3494)
Slope 0.5% down to W. RWY WID 18 RWS WID 80					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY26-	897(2943)(1.6)	973(3192)(1.9)	1032(3386)(2.2)	1079(3540)(2.5)	
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LATROBE VALLEY

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(2)	1430 (4692)	1490 (4888) (2.88%)	1430 (4692)	1430 (4692)
21	(2)	1430 (4692)	1490 (4888) (2.63%)	1430 (4692)	1430 (4692)

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) (3.98%)	919 (3015)	919 (3015)
RWY 09 N side transitional SFC infringed					
27	(1)	919 (3015)	978 (3209) (3.84%)	919 (3015)	919 (3015)
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-	1085(3560)(1.6)	1213(3980)(1.9)	1330(4363)(2.2)	1412(4632)(2.5)	
RWY21-	940(3084)(1.6)	1119(3671)(1.9)	1301(4268)(2.2)	1438(4718)(2.5)	
RWY09-	868(2848)(3.3)				
RWY27-	897(2943)(3.3)				

LAUNCESTON

RWY	(CN)	TORA	TODA	ASDA	LDA
14R	(4)	1981 (6499)	2041 (6696) (2.05%)	1981 (6499)	1981 (6499)
32L	(4)	1981 (6499)	2041 (6696) (2.6%)	1981 (6499)	1981 (6499)
Slope 0.3% ends down to centre. RWY WID 45 RWS WID 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY14R-	1821(5974)(1.6)	1986(6516)(1.9)			
RWY32L-	1333(4373)(1.6)	1909(6263)(1.9)	1982(6503)(2.2)	2029(6657)(2.5)	

LAVERTON

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(3)	1800 (5905)	1860 (6102) (2.84%)	1800 (5905)	1800 (5905)
25	(3)	1800 (5905)	1860 (6102) (1.46%)	1800 (5905)	1800 (5905)
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

RWY	(CN)	TORA	TODA	ASDA	LDA
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)
20	(2)	1219 (3999)	1279 (4196) (1.91%)	1219 (3999)	1219 (3999)
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) (2.67%)	1710 (5610)	1710 (5610)
29	(2)	1710 (5610)	1770 (5807) (2.04%)	1710 (5610)	1710 (5610)
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-	1635(5364)(1.6)	1703(5587)(1.9)	1744(5722)(2.2)	1762(5781)(2.5)
RWY29-	1484(4869)(1.9)			

LEINSTER

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1800 (5905)	1860 (6102) (2.75%)	1800 (5905)	1800 (5905)
28	(3)	1800 (5905)	1860 (6102) (1.93%)	1800 (5905)	1800 (5905)
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-	1655(5430)(1.6)	1732(5682)(1.9)	1788(5866)(2.2)	1831(6007)(2.5)
RWY28-	1800(5905)(1.6)	1855(6086)(1.9)		

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)
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

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(3)	1647 (5403)	1707 (5600) (8.35%)	1647 (5403)	1647 (5403)
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) (3.42%)	1647 (5403)	1647 (5403)
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-	976(3202)(1.9)	1362(4468)(2.2)	1470(4823)(2.5)	1643(5390)(3.3)	1653(5423)(5.0)
RWY33-	1378(4521)(2.5)	1694(5558)(3.3)			

LOCKHART RIVER

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1500 (4921)	1560 (5118) (1.95%)	1500 (4921)	1500 (4921)
30	(3)	1500 (4921)	1560 (5118) (2.74%)	1500 (4921)	1500 (4921)
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

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1936 (6352)	2036 (6680) (1.2%)	1936 (6352)	1936 (6352)
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)
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) 1870(6135)(1.9) 1942(6371)(2.2) 2001(6565)(2.5)

LORD HOWE ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(2)	888 (2913)	948 (3110) (8.6%)	888 (2913)	888 (2913)
28	(2)	888 (2913)	948 (3110) (1.6%)	888 (2913)	785 (2575)
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- 805(2641)(2.5) 865(2838)(3.3) 911(2989)(5.0)

MACKAY

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(4)	1981 (6499)	2041 (6696) (2.56%)	1981 (6499)	1981 (6499)
32	(4)	1981 (6499)	2041 (6696) (2.26%)	1981 (6499)	1981 (6499)

RWY 14/32 APCH SFC based on 150M inner edges.

Slope Level. RWY WID 45 RWS WID 150 Graded 150

SUPPLEMENTARY TAKEOFF DISTANCES

RWY14-	1746(5728)(1.6)	1870(6135)(1.9)	1962(6437)(2.2)	2031(6663)(2.5)
RWY32-	1855(6086)(1.6)	1969(6460)(1.9)	2033(6670)(2.2)	

MAITLAND (NSW)

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(2)	1226 (4022)	1286 (4219) (2.34%)	1226 (4022)	1128 (3701)
RWY 05 DTHR 98M.					
23	(2)	1226 (4022)	1286 (4219) (4.48%)	1226 (4022)	1226 (4022)
Slope 0.5% down to NE. RWY WID 15 RWS WID 80					
08	(1)	1009 (3310)	1039 (3409) (10.02%)	1009 (3310)	781 (2562)
RWY 08 DTHR 228M.					
26	(1)	1009 (3310)	1039 (3409) (9.4%)	1009 (3310)	800 (2625)
RWY 26 DTHR 209M.					
Slope 0.9% down to E. RWY WID 10 RWS WID 60					
18	(1)	502 (1647)	532 (1745) (3.07%)	502 (1647)	502 (1647)
36	(1)	502 (1647)	532 (1745) (5.63%)	502 (1647)	502 (1647)
Slope 0.35% down to S. RWY WID 18 RWS WID 60					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05-	1077(3533)(1.6)	1180(3871)(1.9)	1257(4124)(2.2)	
RWY23-	1061(3481)(3.3)			
RWY08-	892(2926)(5.0)			

MALLACOOTA

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(2)	881 (2890)	941 (3087) (3.38%)	881 (2890)	881 (2890)
25	(2)	881 (2890)	941 (3087) (3.81%)	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) (3.37%)	1028 (3373)	1028 (3373)
36	(1)	1028 (3373)	1088 (3570) (2.97%)	1028 (3373)	1028 (3373)

All transitional SFC infringed.

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY07-	820(2690)(1.9)	851(2792)(2.2)	876(2874)(2.5)	938(3077)(3.3)
RWY18-	858(2815)(2.2)	933(3061)(2.5)	1083(3553)(3.3)	
RWY36-	999(3278)(2.2)	1041(3415)(2.5)		

MANGALORE

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(1)	1224 (4016)	1284 (4213) (3.26%)	1224 (4016)	1224 (4016)
Transition surface may be infringed by vegetation, IWI and parked aircraft adjacent to RWS.					
30	(1)	1224 (4016)	1284 (4213) (3.98%)	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-	999(3278)(1.6)	1083(3553)(1.9)	1146(3760)(2.2)	1197(3927)(2.5)
RWY30-	900(2953)(2.2)	1009(3310)(2.5)	1191(3907)(3.3)	

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)	1839 (6033)	1899 (6230) (3.24%)	1839 (6033)	1672 (5485)
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-	1475(4839)(1.6)	1576(5171)(1.9)	1655(5430)(2.2)	1718(5636)(2.5)

MARYBOROUGH (QLD)

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(2)	885 (2904)	945 (3100) (3.43%)	885 (2904)	885 (2904)
30	(2)	885 (2904)	945 (3100) (3.28%)	885 (2904)	885 (2904)
Slope 0.2% down to NW. RWY WID 30 RWS WID 90					
17	(3)	1587 (5207)	1707 (5600) (5.29%)	1587 (5207)	1587 (5207)
35	(3)	1587 (5207)	1647 (5403) (3.54%)	1587 (5207)	1587 (5207)
Slope 0.2% down to N. RWY WID 30 RWS WID 90 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY12-	930(3051)(3.3)
RWY30-	849(2785)(2.5)
RWY17-	1046(3432)(1.6) 1265(4150)(1.9) 1415(4642)(2.2) 1518(4980)(2.5) 1625(5331)(3.3)
RWY35-	1177(3862)(1.6) 1313(4308)(1.9) 1411(4629)(2.2) 1486(4875)(2.5) 1620(5315)(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) (3%)	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-	2342(7684)(1.6) 2417(7930)(1.9) 2472(8110)(2.2) 2512(8241)(2.5)

MEEKATHARRA

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	2181 (7155)	2241 (7352) (1.2%)	2181 (7155)	2181 (7155)
27	(3)	2181 (7155)	2241 (7352) (2%)	2181 (7155)	2181 (7155)
Slope 0.12% down to E. RWY WID 30 RWS WID 150					
15	(2)	1065 (3494)	1125 (3691) (1.24%)	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-	2178(7146)(1.6) 2227(7306)(1.9)
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MELBOURNE

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(4)	2286 (7500)	2436 (7992) (2.11%)	2346 (7697)	2286 (7500)
TNS SFC infringed by trees RWY 09.					
27	(4)	2286 (7500)	2436 (7992) (1.54%)	2346 (7697)	2286 (7500)
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) (1.94%)	3717 (12195)	3657 (11998)
34	(4)	3657 (11998)	3837 (12588) (2.01%)	3717 (12195)	3657 (11998)
1. TNS infringed by trees both RWY.					
2. Graded portion of RWS marked by gable markers 75M either side of RCL.					
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.					
5. RWY 34 APCH SFC infringed by trees.					
Slope 0.9% down to S. RWY WID 60 RWS WID 300					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY09- 2290(7513)(1.6) 2385(7825)(1.9)
 RWY16- 3697(12129)(1.6) 3769(12365)(1.9)
 RWY34- 3414(11201)(1.6) 3756(12323)(1.9)

TAXIWAY INTERSECTION DECLARED DISTANCES

RWY09- TKOF from TWY N; RWY remaining 1648(5407) reduce all DIST by 638(2093)
 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 LDA
 34 2638 (8654)

MELBOURNE/ESSENDON

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(4)	1921 (6302)	1981 (6499) (2.33%)	1921 (6302)	1921 (6302)
26	(4)	1921 (6302)	1981 (6499) (3.9%)	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) (3.59%)	1503 (4931)	1503 (4931)
35	(3)	1503 (4931)	1563 (5128) (1.81%)	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- 1917(6289)(1.6) 1954(6411)(1.9) 1974(6476)(2.2)
 RWY26- 1675(5495)(1.6) 1747(5732)(1.9) 1802(5912)(2.2) 1845(6053)(2.5) 1934(6345)(3.3)
 RWY17- 1407(4616)(1.6) 1442(4731)(1.9) 1469(4819)(2.2) 1492(4895)(2.5) 1550(5085)(3.3)
 RWY35- 1310(4298)(1.6)

MELBOURNE/MOORABBIN

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	571 (1873)	601 (1972) (5.3%)	571 (1873)	500 (1640)
RWY 04 DTHR 71M(232FT).					
22	(1)	571 (1873)	601 (1972) (5.34%)	571 (1873)	541 (1775)
RWY 22 DTHR 30M(98FT).					

Slope 0.2% down to SW. RWY WID 18 RWS WID 60 Graded 60

13L	(2)	1149 (3770)	1209 (3966) (3.34%)	1149 (3770)	1040 (3412)
RWY 13L DTHR 109M(358FT).					

31R	(2)	1149 (3770)	1209 (3966) (6.55%)	1149 (3770)	1149 (3770)
Slope 0.4% down to SE. RWY WID 30 RWS WID 90 Graded 90					

13R	(1)	1060 (3478)	1120 (3674) (4%)	1060 (3478)	894 (2933)
RWY 13R DTHR 166M(545FT).					

31L	(1)	1060 (3478)	1120 (3674) (3.25%)	1060 (3478)	914 (2999)
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ACFT 18FT AGL taxiing on TWY A, 1140 FM SOT RWY 31L not taken into account in the calculation of TODA GRAD.

RWY 31L DTHR 146M(480FT).

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

17L	(3)	1335 (4380)	1395 (4577) (7.86%)	1335 (4380)	1050 (3445)
RWY 17L DTHR 285M(936FT). CAUTION: OBST fence 9FT ABV and PARL to RWY 89M E of RCL, is not taken into account in determining TODA GRAD and STODA.					
35R	(3)	1335 (4380)	1395 (4577) (18.08%)	1335 (4380)	1160 (3806)
RWY 35R DTHR 175M(574FT). Slope 0.4% down to S. RWY WID 30 RWS WID 150 Graded 90					
17R	(2)	1240 (4068)	1300 (4265) (9.3%)	1240 (4068)	1046 (3432)
RWY 17R DTHR 194M(636FT). TKOF inner edge 80M.					
35L	(2)	1240 (4068)	1300 (4265) (8.88%)	1240 (4068)	1086 (3563)
RWY 35L DTHR 154M(505FT). TKOF Inner edge 80M. Slope 0.4% down to S. RWY WID 18 RWS WID 90 Graded 60					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY13L-	868(2848)(1.9)	968(3176)(2.2)	1048(3438)(2.5)	1208(3963)(3.3)
RWY31R-	980(3215)(3.3)	1141(3743)(5.0)		
RWY13R-	834(2736)(2.2)	924(3031)(2.5)	1103(3619)(3.3)	
RWY31L-	856(2808)(2.5)			
RWY17L-	883(2897)(1.9)	974(3195)(2.2)	1049(3442)(2.5)	1193(3914)(3.3) 1307(4288)(5.0)
RWY35R-	925(3035)(2.2)	994(3261)(2.5)	1127(3697)(3.3)	1247(4091)(5.0)
RWY17R-	856(2808)(2.2)	933(3061)(2.5)	1082(3550)(3.3)	1215(3986)(5.0)
RWY35L-	842(2762)(2.5)	1026(3366)(3.3)	1178(3865)(5.0)	

MERIMBULA

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	1602 (5256)	1662 (5453) (3.16%)	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(3.16) 1721 1602

SUPPLEMENTARY TAKEOFF DISTANCES

1019(2.2) 1357(2.5)

21	(3)	1602 (5256)	1662 (5453) (3.48%)	1602 (5256)	1602 (5256)
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(3.48) 1721 1602

SUPPLEMENTARY TAKEOFF DISTANCES

1727(3.3)

Slope Level. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03-	900(2953)(2.2)	1238(4062)(2.5)
RWY21-	1608(5276)(3.3)	

MILDURA

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(4)	1830 (6004)	1920 (6299) (1.89%)	1830 (6004)	1830 (6004)

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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Transition SFC infringed.

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

18	(2)	1139 (3737)	1199 (3934) (2.46%)	1139 (3737)	1139 (3737)
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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) (2.15%)	1139 (3737)	1139 (3737)
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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)

RWY27- 1849(6066)(1.6)

RWY18- 1006(3300)(1.6) 1097(3599)(1.9) 1162(3812)(2.2)

RWY36- 993(3258)(1.6) 1139(3737)(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) (1.61%)	1590 (5216)	1590 (5216)
22	(2)	1590 (5216)	1650 (5413) (2.47%)	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 and STODA.

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04- 1635(5364)(1.6)

RWY22- 1457(4780)(1.6) 1540(5052)(1.9) 1604(5262)(2.2)

MILINGIMBI

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(2)	1410 (4626)	1470 (4823) (1.78%)	1410 (4626)	1410 (4626)
29	(2)	1410 (4626)	1470 (4823) (2.5%)	1410 (4626)	1410 (4626)

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- 1395(4577)(1.6)

RWY29- 1086(3563)(1.6) 1257(4124)(1.9) 1378(4521)(2.2)

MOOMBA

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1718 (5636)	1778 (5833) (1.6%)	1718 (5636)	1718 (5636)
30	(3)	1718 (5636)	1778 (5833) (1.6%)	1718 (5636)	1718 (5636)

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) (3.55%)	1524 (5000)	1524 (5000)
34	(3)	1524 (5000)	1649 (5410) (1.43%)	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) 1474(4836)(1.9) 1536(5039)(2.2) 1577(5174)(2.5) 1637(5371)(3.3)

MORAWA

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	975 (3199)	1005 (3297) (1.52%)	975 (3199)	975 (3199)
27	(1)	975 (3199)	1005 (3297) (3.66%)	975 (3199)	975 (3199)
Slope 0.1% down to E. RWY WID 18 RWS WID 60					
15	(2)	1350 (4429)	1405 (4610) (1.58%)	1350 (4429)	1350 (4429)
33	(2)	1350 (4429)	1410 (4626) (2.54%)	1350 (4429)	1350 (4429)

Slope 0.67% down to SSE. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY27- 828(2717)(2.5) 981(3218)(3.3)
 RWY33- 962(3156)(1.6) 1284(4213)(1.9) 1356(4449)(2.2) 1404(4606)(2.5)

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) (1.85%)	1613 (5292)	1613 (5292)
Slope 0.1% down to S. RWY WID 30 RWS WID 150 Graded 90					
05	(2)	977 (3205)	1037 (3402) (2.35%)	977 (3205)	977 (3205)
23	(2)	977 (3205)	1037 (3402) (1.6%)	977 (3205)	977 (3205)

Slope 0.2% down to SW. RWY WID 23 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY01- 1266(4153)(1.6) 1419(4655)(1.9) 1530(5020)(2.2) 1607(5272)(2.5)
 RWY19- 1611(5285)(1.6)
 RWY05- 858(2815)(1.9) 987(3238)(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)

1. RWY 09/27 transitional SFC infringed 12FT on S side by primary IWI.
2. RWY 09/27 inner edge WID 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) (3.76%)	827 (2713)	827 (2713)
22	(2)	827 (2713)	887 (2910) (4.2%)	827 (2713)	827 (2713)
Slope 0.1% down to NE. RWY WID 18 RWS WID 90					
18	(3)	1523 (4997)	1583 (5194) (5.85%)	1523 (4997)	1523 (4997)
36	(3)	1523 (4997)	1583 (5194) (5.41%)	1523 (4997)	1523 (4997)
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-	806(2644)(1.9)	829(2720)(2.2)	848(2782)(2.5)	879(2884)(3.3)
RWY18-	1448(4751)(3.3)	1559(5115)(5.0)		
RWY36-	1011(3317)(1.9)	1256(4121)(2.2)	1357(4452)(2.5)	1518(4980)(3.3) 1575(5167)(5.0)

MOUNT GAMBIER

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(2)	846 (2776)	998 (3274) (5.05%)	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) (3.95%)	922 (3025)	922 (3025)
RWY 11 APCH transitional SFC NE side infringed by trees.					
29	(2)	922 (3025)	982 (3222) (3.45%)	922 (3025)	922 (3025)
Slope 0.1% down to SE. RWY WID 30 RWS WID 90					
18	(3)	1644 (5394)	1704 (5590) (3.53%)	1644 (5394)	1644 (5394)
36	(3)	1644 (5394)	1708 (5604) (2.21%)	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-	881(2890)(3.3)			
RWY24-	949(3113)(3.3)			
RWY11-	920(3018)(3.3)			
RWY29-	953(3127)(3.3)			
RWY18-	1099(3606)(1.6)	1271(4170)(1.9)	1404(4606)(2.2)	1510(4954)(2.5) 1654(5426)(3.3)
RWY36-	1139(3737)(1.6)	1483(4865)(1.9)	1704(5590)(2.2)	

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) (3.27%)	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-	1286(4219)(1.6)	1394(4573)(1.9)	1477(4846)(2.2)	1542(5059)(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) (1.61%)	1460 (4790)	1460 (4790)
29	(3)	1460 (4790)	1520 (4987) (4.94%)	1460 (4790)	1460 (4790)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11- 1519(4984)(1.6)

RWY29- 800(2625)(3.3)

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)
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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)
29	(3)	1797 (5896)	1860 (6102) (3.4%)	1797 (5896)	1797 (5896)

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- 1791(5876)(1.6) 1813(5948)(1.9) 1830(6004)(2.2) 1844(6050)(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) (3.1%)	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) (1.2%)	1800 (5905)	1800 (5905)
34	(3)	1800 (5905)	1860 (6102) (1.8%)	1800 (5905)	1800 (5905)

TKOF SFC inner edge WID 150M.

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04- 903(2963)(1.6) 922(3025)(1.9) 936(3071)(2.2) 946(3104)(2.5)

RWY34- 1789(5869)(1.6)

MUDGE

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1739 (5705)	1799 (5902) (5.29%)	1739 (5705)	1739 (5705)
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)
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) (4.55%)	1075 (3527)	1075 (3527)
34	(2)	1075 (3527)	1135 (3724) (2.96%)	1075 (3527)	1075 (3527)
Slope 0.4% down to S. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04-	1445(4741)(2.2)	1529(5016)(2.5)	1657(5436)(3.3)	1785(5856)(5.0)
RWY16-	816(2677)(1.9)	892(2926)(2.2)	945(3100)(2.5)	1052(3451)(3.3)
RWY34-	824(2703)(2.2)	962(3156)(2.5)		

MURRIN MURRIN

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(3)	2000 (6562)	2060 (6758) (1.33%)	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-	2039(6690)(1.6)
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NARACORTE

RWY	(CN)	TORA	TODA	ASDA	LDA
02	(2)	1337 (4386)	1397 (4583) (4.62%)	1337 (4386)	1337 (4386)
20	(2)	1337 (4386)	1397 (4583) (1.93%)	1337 (4386)	1337 (4386)
Slope 0.1% down to S. RWY WID 23 RWS WID 90					
08	(2)	1048 (3438)	1121 (3678) (3.75%)	1048 (3438)	1048 (3438)
26	(2)	1048 (3438)	1108 (3635) (1.76%)	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-	917(3008)(2.2)	1027(3369)(2.5)	1226(4022)(3.3)
RWY20-	1307(4288)(1.6)		
RWY08-	1050(3445)(3.3)		
RWY26-	1095(3592)(1.6)		

NARRABRI

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	800 (2625)	860 (2821) (3.99%)	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%)	1765 (5791)	1765 (5791)
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)
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

RWY09-	815(2674)(3.3)		
RWY18-	1574(5164)(1.6)	1775(5823)(1.9)	
RWY36-	1343(4406)(1.6)	1615(5298)(1.9)	1735(5692)(2.2) 1793(5882)(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) (5.01%)	1020 (3346)	1020 (3346)
Slope 0.1% down to NE. RWY WID 30 RWS WID 90					
14	(3)	1610 (5282)	1826 (5991) (5.93%)	1766 (5794)	1610 (5282)
32	(3)	1610 (5282)	1670 (5479) (1.34%)	1610 (5282)	1610 (5282)
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-	885(2904)(3.3)		
RWY14-	984(3228)(1.6)	1209(3966)(1.9)	1362(4468)(2.2) 1479(4852)(2.5) 1693(5554)(3.3) 1794(5886)(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)
		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)
		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) (3.06%)	1000 (3281)	1000 (3281)
27	(2)	1000 (3281)	1060 (3478) (2.06%)	1000 (3281)	1000 (3281)
		Slope 0.8% down to W. RWY WID 18 RWS WID 90			
18	(1)	1102 (3615)	1162 (3812) (2.57%)	1102 (3615)	1102 (3615)
36	(1)	1102 (3615)	1162 (3812) (2.85%)	1102 (3615)	1102 (3615)
		Slope 0.5% down to S. RWY WID 30 RWS WID 90			

SUPPLEMENTARY TAKEOFF DISTANCES

RWY09-	919(3015)(2.5)				
RWY27-	900(2953)(1.6)	996(3268)(1.9)			
RWY18-	1019(3343)(1.6)	1062(3484)(1.9)	1099(3606)(2.2)	1151(3776)(2.5)	
RWY36-	832(2730)(2.2)	983(3225)(2.5)			

NIFTY

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	2039 (6690)	2099 (6886) (1.2%)	2039 (6690)	2039 (6690)
30	(3)	2039 (6690)	2099 (6886) (2.14%)	2039 (6690)	2039 (6690)

Slope Level. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY30- 2050(6726)(1.6) 2080(6824)(1.9)

NORFOLK ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1435 (4708)	1495 (4905) (3.4%)	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) (1.3%)	1950 (6398)	1890 (6201)

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- 1080(3543)(2.5)

RWY22- 1396(4580)(1.6) 1466(4810)(1.9) 1483(4865)(2.2)

NORMANTON

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	1676 (5499)	1736 (5695) (2.13%)	1676 (5499)	1676 (5499)

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)
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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- 1546(5072)(1.6) 1677(5502)(1.9)

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

NORTHERN PENINSULA

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(3)	1834 (6017)	1894 (6214) (2.62%)	1834 (6017)	1834 (6017)

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) (3.3%)	1834 (6017)	1834 (6017)
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1. Transitional SFC infringed by terrain, apron LGT and IWI on W side.

2. Transitional SFC infringed by trees on each side at S end.

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY13- 1373(4505)(1.6) 1683(5522)(1.9) 1792(5879)(2.2) 1868(6129)(2.5)

RWY31- 1191(3907)(2.2) 1470(4823)(2.5)

NOVA

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	2000 (6562)	2060 (6758) (2.68%)	2000 (6562)	2000 (6562)
24	(3)	2000 (6562)	2060 (6758) (2.79%)	2000 (6562)	2000 (6562)

Slope 0.46% down to NE. RWY WID 30 RWS WID 150 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY06-	1737(5699)(1.6)	1856(6089)(1.9)	1948(6391)(2.2)	2021(6630)(2.5)
RWY24-	1818(5964)(1.6)	1942(6371)(1.9)	2014(6608)(2.2)	2040(6693)(2.5)

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)
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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) (3.33%)	1860 (6102)	1860 (6102)
25	(3)	1860 (6102)	1920 (6299) (1.86%)	1860 (6102)	1860 (6102)
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-	1431(4695)(1.6)	1606(5269)(1.9)	1733(5686)(2.2)	1822(5978)(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)	783 (2569)	843 (2766) (4.89%)	783 (2569)	783 (2569)
22	(1)	783 (2569)	843 (2766) (3.37%)	783 (2569)	783 (2569)

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

11	(3)	2213 (7260)	2335 (7661) (2.01%)	2213 (7260)	2213 (7260)
29	(3)	2213 (7260)	2273 (7457) (3.29%)	2213 (7260)	2213 (7260)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11-	2155(7070)(1.6)	2295(7529)(1.9)		
RWY29-	1671(5482)(1.6)	1886(6188)(1.9)	2003(6571)(2.2)	2099(6886)(2.5)

ORBOST

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(2)	1140 (3740)	1200 (3937) (2.87%)	1140 (3740)	1140 (3740)
25	(2)	1140 (3740)	1200 (3937) (4.38%)	1140 (3740)	1140 (3740)

Slope 0.4% down to E. RWY WID 18 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY07-	982(3222)(1.9)	1131(3711)(2.2)	1191(3907)(2.5)
RWY25-	1026(3366)(3.3)		

OSBORNE MINE

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	2000 (6562)	2060 (6758) (2.79%)	2000 (6562)	2000 (6562)
30	(3)	2000 (6562)	2060 (6758) (2.38%)	2000 (6562)	2000 (6562)

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-	1897(6224)(1.6)	1993(6539)(1.9)	2039(6690)(2.2)	

PALM ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
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

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1684 (5525)	1744 (5722) (2.22%)	1684 (5525)	1684 (5525)
22	(3)	1684 (5525)	1744 (5722) (3.63%)	1684 (5525)	1684 (5525)

Slope 0.7% down to SW. RWY WID 30 RWS WID 150 Graded 150

11 (2) 1623 (5325) 1683 (5522) (4.02%) 1623 (5325) 1623 (5325)

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) (2.39%) 1623 (5325) 1450 (4757)

RWY 29 DTHR 173M (567FT).

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04- 1132(3714)(1.9) 1714(5623)(2.2)

RWY22- 1283(4209)(1.6) 1400(4593)(1.9) 1492(4895)(2.2) 1563(5128)(2.5) 1703(5587)(3.3)

RWY11- 1377(4518)(3.3)

RWY29- 1370(4495)(1.6) 1574(5164)(1.9) 1640(5381)(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) 2439 (8002) 2499 (8199) (0%) 2439 (8002) 2439 (8002)

36R (MIL) 2439 (8002) 2499 (8199) (0%) 2439 (8002) 2439 (8002)

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 0.55% up to S to 843M, then down 0.45% to RWY end. RWY WID 45 RWS WID 230

18R (MIL) 1741 (5712) 1801 (5909) (0%) 1801 (5909) 1741 (5712)

Refer AD OPR for TODA GRAD details.

36L (MIL) 1741 (5712) 1801 (5909) (0%) 1801 (5909) 1741 (5712)

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	2095(6873)(1.6%)	2151(7057)(1.9%)	2166(7106)(2.0%)	2192(7191)(2.2%)
	2224(7297)(2.5%)	2281(7484)(3.3%)	2343(7687)(5.0%)	
RWY 36R	2027(6650)(1.6%)	2100(6890)(1.9%)	2120(6955)(2.0%)	2153(7064)(2.2%)
	2192(7192)(2.5%)	2261(7418)(3.3%)	2332(7651)(5.0%)	

ARRESTOR BARRIER RETRACTED (Net Poles 5FT AGL)

RWY 18L	2382(7815)(1.6%)	2394(7854)(1.9%)	2398(7867)(2.0%)	2404(7887)(2.2%)
	2411(7910)(2.5%)	2425(7956)(3.3%)	2439(8002)(5.0%)	
RWY 36R	2353(7720)(1.6%)	2372(7782)(1.9%)	2377(7799)(2.0%)	2385(7825)(2.2%)
	2395(7858)(2.5%)	2413(7917)(3.3%)	2432(7979)(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)			

PERTH

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(4)	3444 (11299)	3504 (11496) (1.97%)	3444 (11299)	3444 (11299)
21	(4)	3444 (11299)	3644 (11955) (2.75%)	3444 (11299)	3444 (11299)

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)
24	(4)	2163 (7096)	2224 (7296) (2.26%)	2163 (7096)	2163 (7096)

OLS extensively infringed by terrain E of AD.

Slope from THRs 0.1% down to centre. RWY WID 45 RWS WID 300 Graded 150

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03-	3382(11096)(1.6)	3482(11424)(1.9)			
RWY21-	3251(10666)(1.6)	3370(11056)(1.9)	3453(11329)(2.2)	3497(11473)(2.5)	
RWY06-	1954(6411)(2.2)				
RWY24-	1786(5860)(1.6)	2024(6640)(1.9)	2195(7201)(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 A;	RWY remaining 1592(5223)	reduce all DIST by 571(1873)
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) (2.29%)	1392 (4567)	1274 (4180)
		RWY 06L DTHR 118M (387FT).			
24R	(2)	1392 (4567)	1452 (4764) (2.84%)	1392 (4567)	1246 (4088)
		RWY 24R DTHR 146M (479FT).			
		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) (2.47%)	1150 (3773)	1150 (3773)
		Slope Level. RWY WID 18 RWS WID 90			
12	(2)	1508 (4947)	1568 (5144) (1.86%)	1508 (4947)	1508 (4947)
30	(2)	1508 (4947)	1568 (5144) (3.31%)	1508 (4947)	1508 (4947)
		Slope Level. RWY WID 30 RWS WID 90			

SUPPLEMENTARY TAKEOFF DISTANCES

RWY06L- 1267(4157)(1.6) 1364(4475)(1.9) 1434(4705)(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- 1039(3409)(1.9) 1138(3734)(2.2)
 RWY12- 1493(4898)(1.6)
 RWY30- 1022(3353)(2.2) 1216(3989)(2.5) 1562(5125)(3.3)

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)
26	(1)	1142 (3747)	1202 (3944) (4.47%)	1142 (3747)	1142 (3747)

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) (2.98%)	2069 (6788)	2069 (6788)
25	(3)	2069 (6788)	2129 (6985) (1.3%)	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- 1600(5249)(1.6) 1813(5948)(1.9) 1972(6470)(2.2) 2064(6772)(2.5)

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 135					
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 135					
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 135

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) (2.11%)	1053 (3455)	1053 (3455)
24	(1)	1053 (3455)	1113 (3652) (3.66%)	1053 (3455)	1053 (3455)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY06-	1010(3314)(1.6)	1077(3533)(1.9)			
RWY24-	806(2644)(1.9)	894(2933)(2.2)	962(3156)(2.5)	1081(3547)(3.3)	

PORMPURA AW

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(2)	1360 (4462)	1600 (5249) (2.24%)	1360 (4462)	1360 (4462)
32	(2)	1360 (4462)	1420 (4659) (1.73%)	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-	1426(4678)(1.6)	1521(4990)(1.9)	1590(5216)(2.2)		
RWY32-	1389(4557)(1.6)				

PORT AUGUSTA

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(3)	1650 (5413)	1710 (5610) (1.62%)	1650 (5413)	1650 (5413)
33	(3)	1650 (5413)	1710 (5610) (3.23%)	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-	1708(5604)(1.6)				
RWY33-	1558(5111)(1.6)	1621(5318)(1.9)	1657(5436)(2.2)	1679(5508)(2.5)	

PORT HEDLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(4)	2500 (8202)	2560 (8399) (1.53%)	2500 (8202)	2500 (8202)
32	(4)	2500 (8202)	2560 (8399) (1.2%)	2500 (8202)	2500 (8202)

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) (3.01%)	2100 (6890)	2100 (6890)
27	(3)	2100 (6890)	2160 (7087) (1.66%)	2100 (6890)	2100 (6890)

Slope 0.16% down to W. RWY WID 30 RWS WID 300 Graded 150

SUPPLEMENTARY TAKEOFF DISTANCES

RWY09-	2013(6604)(1.6)	2064(6772)(1.9)	2100(6890)(2.2)	2127(6978)(2.5)
RWY27-	2153(7064)(1.6)			

PORT KEATS

RWY	(CN)	TORA	TODA	ASDA	LDA
16	(2)	1410 (4626)	1470 (4823) (3.93%)	1410 (4626)	1410 (4626)
34	(2)	1410 (4626)	1470 (4823) (3.3%)	1410 (4626)	1410 (4626)

RWY 16/34 APCH inner edge length 90M.
Slope 0.6% down to NW. RWY WID 23 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY16-	857(2812)(2.2)	1043(3422)(2.5)	1337(4386)(3.3)	
RWY34-	1319(4327)(1.6)	1363(4472)(1.9)	1394(4573)(2.2)	1420(4659)(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) (2.4%)	1499 (4918)	1499 (4918)
Slope 0.2% down to S. RWY WID 30 RWS WID 150 Graded 90					
05	(2)	1275 (4183)	1335 (4380) (3.55%)	1275 (4183)	1275 (4183)
23	(2)	1275 (4183)	1335 (4380) (3.93%)	1275 (4183)	1275 (4183)
Slope 0.2% down to NE. RWY WID 30 RWS WID 90					
15	(3)	1450 (4757)	1510 (4954) (1.75%)	1450 (4757)	1450 (4757)
33	(3)	1450 (4757)	1510 (4954) (3.12%)	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-	1497(4911)(1.6)	1546(5072)(1.9)	1581(5187)(2.2)	
RWY05-	1276(4186)(1.6)	1292(4239)(1.9)	1304(4278)(2.2)	1313(4308)(2.5) 1332(4370)(3.3)
RWY23-	991(3251)(3.3)			
RWY15-	1489(4885)(1.6)			

PORT MACQUARIE

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(4)	1800 (5905)	1860 (6102) (3.84%)	1800 (5905)	1800 (5905)
21	(4)	1800 (5905)	1860 (6102) (7.29%)	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-	1356(4449)(1.6)	1533(5029)(1.9)	1633(5358)(2.2)	1705(5594)(2.5) 1813(5948)(3.3)
RWY21-	1221(4006)(1.9)	1355(4445)(2.2)	1453(4767)(2.5)	1630(5348)(3.3) 1810(5938)(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) (1.2%)	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)
26	(2)	1043 (3422)	1127 (3697) (1.2%)	1043 (3422)	1043 (3422)
Slope Level. RWY WID 30 RWS WID 90					
17	(2)	1069 (3507)	1129 (3704) (1.2%)	1069 (3507)	1069 (3507)
35	(2)	1069 (3507)	1202 (3944) (1.2%)	1142 (3747)	1069 (3507)
Slope Level. RWY WID 30 RWS WID 90					

PORTLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	1616 (5302)	1676 (5499) (2.06%)	1616 (5302)	1616 (5302)
26	(3)	1616 (5302)	1676 (5499) (2.3%)	1616 (5302)	1616 (5302)
Slope 0.1% down to W. RWY WID 30 RWS WID 150 Graded 90					
17	(2)	1180 (3871)	1240 (4068) (2.99%)	1180 (3871)	1180 (3871)
35	(2)	1180 (3871)	1240 (4068) (2.31%)	1180 (3871)	1180 (3871)
Slope 0.4% down to S. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08-	1543(5062)(1.6)	1635(5364)(1.9)			
RWY26-	1440(4724)(1.6)	1595(5233)(1.9)	1658(5440)(2.2)		
RWY17-	885(2904)(1.9)	1012(3320)(2.2)	1112(3648)(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)
36	(3)	2200 (7218)	2400 (7874) (1.2%)	2200 (7218)	2200 (7218)
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

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(4)	2073 (6801)	2133 (6998) (1.2%)	2073 (6801)	2073 (6801)
29	(4)	2073 (6801)	2133 (6998) (2.21%)	2073 (6801)	2073 (6801)
Slope 0.2% down to E. RWY WID 45 RWS WID 150 Graded 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY29-	2098(6883)(2.2)				
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QUILPIE

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(2)	1493 (4898)	1553 (5095) (2.88%)	1493 (4898)	1493 (4898)
27	(2)	1493 (4898)	1553 (5095) (2.65%)	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) (2.26%)	1070 (3510)	1070 (3510)
36	(2)	1070 (3510)	1130 (3707) (1.9%)	1070 (3510)	1070 (3510)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY09-	1280(4199)(1.6)	1388(4554)(1.9)	1469(4819)(2.2)	1523(4997)(2.5)
RWY27-	1305(4281)(1.6)	1408(4619)(1.9)	1479(4852)(2.2)	1532(5026)(2.5)
RWY18-	942(3091)(1.6)	1044(3425)(1.9)	1118(3668)(2.2)	
RWY36-	1053(3455)(1.6)			

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) (2.67%)	1380 (4528)	1380 (4528)
27	(2)	1380 (4528)	1440 (4724) (2.83%)	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-	1122(3681)(1.6)	1247(4091)(1.9)	1337(4386)(2.2)	1406(4613)(2.5)
RWY27-	1194(3917)(1.6)	1272(4173)(1.9)	1336(4383)(2.2)	1390(4560)(2.5)

RAVENSTHORPE

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	1680 (5512)	1830 (6004) (3.47%)	1680 (5512)	1680 (5512)
24	(3)	1680 (5512)	1740 (5709) (2.1%)	1680 (5512)	1680 (5512)
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-	1604(5262)(1.6)	1691(5548)(1.9)	1733(5686)(2.2)	1764(5787)(2.5)	1821(5974)(3.3)
RWY24-	1705(5594)(1.6)	1728(5669)(1.9)			
RWY14-	1072(3517)(1.6)	1127(3697)(1.9)	1169(3835)(2.2)	1201(3940)(2.5)	1259(4131)(3.3)

RENMARK

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(2)	1740 (5709)	1800 (5905) (4%)	1740 (5709)	1740 (5709)
25	(2)	1740 (5709)	1800 (5905) (2.63%)	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) (4.4%)	1024 (3360)	1024 (3360)
36	(2)	1024 (3360)	1084 (3556) (4.85%)	1024 (3360)	1024 (3360)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY07-	1408(4619)(1.6)	1523(4997)(1.9)	1603(5259)(2.2)	1665(5463)(2.5)	1760(5774)(3.3)
RWY25-	1139(3737)(1.6)	1390(4560)(1.9)	1603(5259)(2.2)	1783(5850)(2.5)	
RWY18-	1005(3297)(3.3)				
RWY36-	802(2631)(1.9)	863(2831)(2.2)	908(2979)(2.5)	998(3274)(3.3)	

RICHMOND (NSW)

RWY	(CN)	TORA	TODA	ASDA	LDA
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)
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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)
RWY28-	2154(7067)(3.3)	2165(7103)(5.0)			
RWY28-	1935(6348)(3.3)				

RICHMOND (QLD)

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	1522 (4993)	1582 (5190) (1.32%)	1522 (4993)	1522 (4993)
27	(3)	1522 (4993)	1582 (5190) (1.2%)	1522 (4993)	1522 (4993)

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

ROBINVALE

RWY	(CN)	TORA	TODA	ASDA	LDA
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)	1140 (3740)	1200 (3937) (1.95%)	1140 (3740)	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)
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)
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					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04-	1183(3881)(1.6)
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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) (5%)	801 (2628)	801 (2628)
Slope 1.0% down to E. RWY WID 18 RWS WID 60					
18	(3)	1504 (4934)	1704 (5590) (1.92%)	1504 (4934)	1504 (4934)
36	(3)	1504 (4934)	1564 (5131) (2.82%)	1504 (4934)	1504 (4934)
Slope Level. RWY WID 30 RWS WID 150 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY18-	1368(4488)(1.6)	1690(5545)(1.9)			
RWY36-	1423(4669)(1.6)	1524(5000)(1.9)	1542(5059)(2.2)	1554(5098)(2.5)	

ROTTNEST ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	1293 (4242)	1353 (4439) (4.85%)	1293 (4242)	1293 (4242)
27	(1)	1293 (4242)	1353 (4439) (3.36%)	1293 (4242)	1121 (3678)
RWY 27 DTHR 172M (564FT).					
Slope 0.09% down to E. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY09-	843(2766)(2.2)	969(3179)(2.5)	1191(3907)(3.3)		
RWY27-	910(2986)(1.9)	1156(3793)(2.2)	1318(4324)(2.5)	1351(4432)(3.3)	

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SAIBAI ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(1)	750 (2461)	750 (2461) (6.46%)	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) (4.75%)	1520 (4987)	1520 (4987)
29	(3)	1520 (4987)	1580 (5184) (4.15%)	1520 (4987)	1520 (4987)
Slope Level. RWY WID 30 RWS WID 150 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11- 1172(3845)(1.6) 1301(4268)(1.9) 1395(4577)(2.2) 1466(4810)(2.5) 1521(4990)(3.3)
 RWY29- 938(3077)(1.6) 1118(3668)(1.9) 1250(4101)(2.2) 1350(4429)(2.5) 1527(5010)(3.3)

SAINT HELENS

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1070 (3510)	1130 (3707) (3.47%)	1070 (3510)	1070 (3510)
26	(2)	1070 (3510)	1130 (3707) (2.73%)	1070 (3510)	1070 (3510)
Slope 1.3% down to E. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08- 1044(3425)(1.6) 1070(3510)(1.9) 1098(3602)(2.2) 1109(3638)(2.5) 1128(3701)(3.3)
 RWY26- 1124(3688)(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) (3.04%)	1400 (4593)	1400 (4593)
29	(2)	1400 (4593)	1460 (4790) (2.25%)	1400 (4593)	1400 (4593)
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- 1169(3835)(1.6) 1273(4176)(1.9) 1358(4455)(2.2) 1398(4587)(2.5)
 RWY29- 1345(4413)(1.6) 1406(4613)(1.9) 1453(4767)(2.2)

SHARK BAY

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	1690 (5545)	1810 (5938) (10.33%)	1690 (5545)	1690 (5545)
36	(3)	1690 (5545)	1820 (5971) (3.95%)	1690 (5545)	1690 (5545)

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-	1669(5476)(1.6)	1700(5577)(1.9)	1722(5650)(2.2)	1738(5702)(2.5)	1767(5797)(3.3)
	1790(5873)(5.0)				
RWY36-	1725(5659)(1.6)	1746(5728)(1.9)	1762(5781)(2.2)	1775(5823)(2.5)	1797(5896)(3.3)

SHELLHARBOUR AIRPORT

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1331 (4367)	1391 (4564) (9.51%)	1331 (4367)	1331 (4367)
26	(2)	1331 (4367)	1391 (4564) (7.04%)	1331 (4367)	1241 (4071)

RWY 26 DTHR 90M.

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

16	(2)	1819 (5968)	1879 (6165) (5.26%)	1819 (5968)	1819 (5968)
34	(2)	1819 (5968)	1879 (6165) (4.33%)	1819 (5968)	1643 (5390)

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-	885(2904)(1.9)	966(3169)(2.2)	1040(3412)(2.5)	1175(3855)(3.3)	1297(4255)(5.0)
RWY26-	836(2743)(1.9)	985(3232)(2.2)	1071(3514)(2.5)	1209(3966)(3.3)	1323(4340)(5.0)
RWY16-	809(2654)(3.3)	1851(6073)(5.0)			
RWY34-	1020(3346)(2.2)	1330(4363)(2.5)	1765(5791)(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) (4.59%)	1298 (4258)	1238 (4062)
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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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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-	924(3031)(2.2)	1065(3494)(2.5)	1312(4304)(3.3)		
RWY36-	972(3189)(1.9)	1135(3724)(2.2)	1253(4111)(2.5)		

SNAKE BAY

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(2)	1443 (4734)	1503 (4931) (3.18%)	1443 (4734)	1443 (4734)
31	(2)	1443 (4734)	1503 (4931) (2.13%)	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-	1092(3583)(1.9)	1334(4377)(2.2)	1428(4685)(2.5)		
RWY31-	1259(4131)(1.6)	1409(4623)(1.9)			

SOLOMON

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	2000 (6562)	2060 (6758) (1.27%)	2000 (6562)	2000 (6562)
27	(3)	2000 (6562)	2060 (6758) (1.33%)	2000 (6562)	2000 (6562)

1. Extensive LIT terrain penetration of the inner HZS and COS to 2,920FT in the northwestern and northeastern quadrants of the airfield BTN MAG BRG 284DEG through 58DEG 1,500M to 6,900M FM the ARP. No circling to the North.

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) (2.49%)	1400 (4593)	1400 (4593)
28	(2)	1400 (4593)	1460 (4790) (1.29%)	1400 (4593)	1400 (4593)

Slope 0.4% down to E. RWY WID 18 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY10- 1365(4478)(1.6) 1405(4610)(1.9) 1436(4711)(2.2)

SOUTHERN CROSS

RWY	(CN)	TORA	TODA	ASDA	LDA
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) (2.84%)	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- 1045(3428)(1.6) 1231(4039)(1.9) 1357(4452)(2.2) 1416(4646)(2.5)

ST ARNAUD

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	535 (1755)	595 (1952) (4.85%)	535 (1755)	535 (1755)
27	(1)	535 (1755)	595 (1952) (3.66%)	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)
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RWY 18 DTHR 146M.

36	(1)	1011 (3317)	1064 (3491) (2.05%)	1011 (3317)	1011 (3317)
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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- 812(2664)(1.6) 996(3268)(1.9)

STANTHORPE

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1711 (5613)	1771 (5810) (3.75%)	1711 (5613)	1711 (5613)
26	(2)	1711 (5613)	1771 (5810) (2.15%)	1711 (5613)	1711 (5613)

Slope 1.4% down to W. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08- 1237(4058)(1.9) 1568(5144)(2.2) 1640(5381)(2.5) 1741(5712)(3.3)
 RWY26- 1629(5344)(1.6) 1712(5617)(1.9)

STAWELL

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	1403 (4603)	1463 (4800) (3.83%)	1403 (4603)	1403 (4603)
29	(3)	1403 (4603)	1463 (4800) (14.16%)	1403 (4603)	1403 (4603)
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) (3.85%)	854 (2802)	854 (2802)
36	(2)	854 (2802)	914 (2999) (2.07%)	854 (2802)	854 (2802)
Slope 1.3% down to N. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11-	841(2759)(1.6)	1180(3871)(1.9)	1296(4252)(2.2)	1353(4439)(2.5)	1434(4705)(3.3)
RWY29-	1050(3445)(1.6)	1144(3753)(1.9)	1223(4012)(2.2)	1261(4137)(2.5)	1343(4406)(3.3)
	1421(4662)(5.0)				
RWY18-	846(2776)(3.3)				
RWY36-	833(2733)(1.6)	884(2900)(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)
31	(2)	1351 (4432)	1411 (4629) (1.2%)	1351 (4432)	1351 (4432)
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

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(3)	1950 (6398)	2010 (6594) (1.25%)	1950 (6398)	1950 (6398)
24	(3)	1950 (6398)	2010 (6594) (1.2%)	1950 (6398)	1950 (6398)
Slope 0.3% down to SW. RWY WID 30 RWS WID 150					

SUNSHINE COAST

RWY	(CN)	TORA	TODA	ASDA	LDA
13	(4)	2625 (8612)	2685 (8809) (2.47%)	2625 (8612)	2625 (8612)
31	(4)	2800 (9186)	2860 (9383) (2.48%)	2800 (9186)	2450 (8038)

RWY 31 DTHR 175M (from RWY 13 end).

Slope Level. RWY WID 45 RWS WID 300

SUPPLEMENTARY TAKEOFF DISTANCES

RWY13- 2468(8097)(1.6) 2607(8553)(1.9) 2655(8711)(2.2)

RWY31- 1692(5551)(1.9) 2817(9242)(2.2)

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

RWY	(CN)	TORA	TODA	ASDA	LDA
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) (3.52%)	1416 (4646)	1259 (4131)
RWY 11C LDA DISP THR 97M.					
29C	(3)	1416 (4646)	1476 (4842) (4.52%)	1416 (4646)	1356 (4449)
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) (3.26%)	1100 (3609)	1100 (3609)
29R	(2)	1100 (3609)	1160 (3806) (2.92%)	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) (3.16%)	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) (3.63%)	1038 (3405)	1038 (3405)
Slope 0.1% down to W. RWY WID 23 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11C-	996(3268)(1.9)	1138(3734)(2.2)	1246(4088)(2.5)	1439(4721)(3.3)
RWY29C-	891(2923)(2.2)	1027(3369)(2.5)	1270(4167)(3.3)	
RWY11L-	892(2926)(2.2)	991(3251)(2.5)		
RWY29R-	881(2890)(2.2)	1019(3343)(2.5)		
RWY11R-	816(2677)(2.2)	927(3041)(2.5)		
RWY29L-	831(2726)(2.5)	1039(3409)(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)
Approach GRAD 2.9%					
25	(4)	2530 (8300)	2590 (8497) (2.76%)	2530 (8300)	2429 (7969)
1. Approach GRAD 3.4%.					
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) (3.05%)	2438 (7999)	2207 (7241)
Approach GRAD 3.0%, RWY 16L DTHR 231M.					
34R	(4)	2438 (7999)	2498 (8195) (3.43%)	2438 (7999)	2400 (7874)
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) (2.37%)	3992 (13097)	3877 (12720)
		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.			
34L	(4)	3962 (12999)	4059 (13317) (3.08%)	3962 (12999)	3962 (12999)
		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-	1356(4449)(1.6)	1717(5633)(1.9)	1982(6503)(2.2)	2172(7126)(2.5)	2475(8120)(3.3)
RWY25-	1938(6358)(1.9)	2468(8097)(2.2)	2558(8392)(2.5)		
RWY16L-	2431(7976)(1.6)	2469(8100)(1.9)	2497(8192)(2.2)	2510(8235)(2.5)	
RWY34R-	1548(5079)(1.6)	2025(6644)(1.9)	2292(7520)(2.2)	2389(7838)(2.5)	2479(8133)(3.3)
RWY16R-	3955(12976)(1.6)	4000(13123)(1.9)	4034(13235)(2.2)		
RWY34L-	3455(11335)(1.6)	3707(12162)(1.9)	3840(12598)(2.2)	3936(12913)(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) (4.36%)	842 (2762)	842 (2762)
24	(2)	842 (2762)	902 (2959) (2.47%)	842 (2762)	842 (2762)
Slope 0.2% down to SW. RWY WID 30 RWS WID 90					
12L	(4)	2200 (7218)	2260 (7415) (1.65%)	2200 (7218)	2200 (7218)
30R	(4)	2200 (7218)	2260 (7415) (2.19%)	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) (3.58%)	1110 (3642)	1110 (3642)
30L	(1)	1110 (3642)	1140 (3740) (2.68%)	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) (6.63%)	1020 (3346)	1020 (3346)
Slope 1.2% down to N. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY06-	844(2769)(3.3)				
RWY12L-	2241(7352)(1.6)				
RWY30R-	2175(7136)(1.6)	2243(7359)(1.9)			
RWY12R-	838(2749)(2.2)	934(3064)(2.5)	1105(3625)(3.3)		
RWY30L-	995(3264)(1.6)	1041(3415)(1.9)	1073(3520)(2.2)	1117(3665)(2.5)	
RWY18-	1047(3435)(3.3)				
RWY36-	858(2815)(1.6)	888(2913)(1.9)	914(2999)(2.2)	936(3071)(2.5)	983(3225)(3.3)
	1047(3435)(5.0)				

TAREE

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1504 (4934)	1564 (5131) (2.48%)	1504 (4934)	1389 (4557)
RWY 04 DTHR 115M (377FT).					
22	(3)	1504 (4934)	1564 (5131) (21.99%)	1504 (4934)	1504 (4934)
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) (4%)	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-	1352(4436)(1.6)	1503(4931)(1.9)	1560(5118)(2.2)		
RWY22-	1042(3419)(1.9)	1223(4012)(2.2)	1346(4416)(2.5)	1482(4862)(3.3)	1518(4980)(5.0)

TAROOM

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1091 (3579)	1151 (3776) (4.7%)	1091 (3579)	1091 (3579)
26	(2)	1091 (3579)	1151 (3776) (2.4%)	1091 (3579)	1091 (3579)
Slope 0.8% down to W. RWY WID 30 RWS WID 90					
12	(2)	1100 (3609)	1160 (3806) (2.41%)	1100 (3609)	1100 (3609)
30	(2)	1100 (3609)	1160 (3806) (1.6%)	1100 (3609)	1100 (3609)
Slope 0.8% down to NW. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08-	939(3081)(1.9)	1060(3478)(2.2)	1082(3550)(2.5)	1118(3668)(3.3)	
RWY26-	1026(3366)(1.6)	1084(3556)(1.9)	1128(3701)(2.2)		
RWY12-	1095(3592)(1.6)	1123(3684)(1.9)	1147(3763)(2.2)		

TELFER

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	2000 (6562)	2060 (6758) (1.2%)	2000 (6562)	2000 (6562)
30	(3)	2000 (6562)	2060 (6758) (1.84%)	2000 (6562)	2000 (6562)

1. RWY 30: Perimeter fences not taken into calculation of TODA gradients and STODA. Perimeter fences cross inner edge 2060M FM SOT 79M L of EXTD CL 980FT AMSL 5FT ABV end of TODA and 79M R EXTD CL 983FT AMSL 8FT ABV end of TODA.
2. Mine tailings & masts protrude through obstacle limitations surface south side of RWY.
3. Approach inner edge 150M. Approach GRAD 3.33%.
Slope 0.41% down to SE. RWY WID 30 RWS WID 150 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY30- 1816(5958)(1.6)

TEMORA

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	2040 (6693)	2100 (6890) (4.57%)	2040 (6693)	2040 (6693)
23	(3)	2040 (6693)	2100 (6890) (3.01%)	2040 (6693)	1980 (6496)
09	(1)	815 (2674)	845 (2772) (4.26%)	815 (2674)	815 (2674)
27	(1)	815 (2674)	845 (2772) (1.73%)	815 (2674)	815 (2674)
18	(3)	1469 (4819)	1547 (5075) (4.47%)	1469 (4819)	1355 (4445)
36	(3)	1469 (4819)	1529 (5016) (3.66%)	1469 (4819)	1455 (4774)

- OBST: Fence 2.8FT ABV and at RWS end transient OBST (Railway) up to 16.3FT ABV and 57M E of RWS end are not taken into account in the calculation of TODA GRAD and STODA.
1. OBST: Fence 1.9FT ABV RWS end parallel to RWY, 75M N and S of RCL, are not taken into account in the calculation of TODA GRAD and STODA.
 2. RWY 23 DTHR 60M.
Slope 0.5% from each end down to centre. RWY WID 30 RWS WID 90
 3. RWY 18 DTHR 114M.
 4. RWY 18/36 APCH takeoff inner edge 90.
 5. Fence 3.1FT ABV & 33M N of RWS end, and transient OBST up to 18.9FT ABV and 70M N of RWS end, have not been taken into account in the calculation of TODA GRAD & STODA.
Slope 0.3% down to N. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05- 1814(5951)(1.6) 1877(6158)(1.9) 1924(6312)(2.2) 1962(6437)(2.5) 2035(6676)(3.3)
 RWY23- 1277(4190)(1.6) 1591(5220)(1.9) 1788(5866)(2.2) 1931(6335)(2.5)
 RWY18- 991(3251)(1.9) 1146(3760)(2.2) 1249(4098)(2.5) 1430(4692)(3.3)
 RWY36- 1006(3300)(1.6) 1172(3845)(1.9) 1298(4258)(2.2) 1399(4590)(2.5) 1517(4977)(3.3)

TENNANT CREEK

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(3)	1959 (6427)	2019 (6624) (2.8%)	1959 (6427)	1959 (6427)
25	(3)	1959 (6427)	2019 (6624) (2.7%)	1959 (6427)	1959 (6427)

OBST fences 6.3FT ABV, 98M south and 4.1FT ABV, 91M north, both PARL to RCL are not taken into account in determining TODA GRAD and STODA.

Slope 0.4% down to W. RWY WID 30 RWS WID 150 Graded 90

11	(2)	1054 (3458)	1114 (3655) (2.95%)	1054 (3458)	1054 (3458)
29	(2)	1054 (3458)	1178 (3865) (1.63%)	1054 (3458)	1054 (3458)

Slope 0.4% down to NW. RWY WID 23 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY07-	1311(4301)(2.2)	1710(5610)(2.5)			
RWY25-	1920(6299)(1.6)	1953(6407)(1.9)	1982(6503)(2.2)	2006(6581)(2.5)	
RWY11-	951(3120)(2.5)				
RWY29-	1174(3852)(1.6)				

THANGOOL

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(2)	1527 (5010)	1587 (5207) (3.4%)	1527 (5010)	1527 (5010)
28	(2)	1527 (5010)	1587 (5207) (3.54%)	1527 (5010)	1527 (5010)

RWY 10/28 - OBST survey conducted using 150M inner edge width.

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

14	(1)	794 (2605)	854 (2802) (4.69%)	794 (2605)	794 (2605)
32	(1)	794 (2605)	854 (2802) (3%)	794 (2605)	794 (2605)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY10-	1024(3360)(1.9)	1391(4564)(2.2)	1458(4783)(2.5)	1576(5171)(3.3)	
RWY28-	1047(3435)(1.6)	1245(4085)(1.9)	1352(4436)(2.2)	1424(4672)(2.5)	1558(5111)(3.3)

THARGOMINDAH

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	846 (2776)	906 (2972) (3.79%)	846 (2776)	846 (2776)
22	(2)	846 (2776)	906 (2972) (3.25%)	846 (2776)	846 (2776)

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

13	(2)	1463 (4800)	1523 (4997) (4.25%)	1463 (4800)	1463 (4800)
31	(2)	1463 (4800)	1523 (4997) (3.16%)	1463 (4800)	1463 (4800)

RWY reference code based on 150M TKOF inner edge WID.

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04-	816(2677)(2.5)	883(2897)(3.3)			
RWY22-	804(2638)(2.5)				
RWY13-	912(2992)(1.6)	1148(3766)(1.9)	1313(4308)(2.2)	1429(4688)(2.5)	1509(4951)(3.3)
RWY31-	1405(4610)(1.6)	1442(4731)(1.9)	1469(4819)(2.2)	1491(4892)(2.5)	

THE GRANITES

RWY	(CN)	TORA	TODA	ASDA	LDA
11	(3)	2336 (7664)	2396 (7861) (2.46%)	2336 (7664)	2336 (7664)
29	(3)	2336 (7664)	2396 (7861) (2.8%)	2336 (7664)	2336 (7664)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11-	2294(7526)(1.6)	2339(7674)(1.9)	2372(7782)(2.2)		
RWY29-	1051(3448)(1.9)	1632(5354)(2.2)	2061(6762)(2.5)		

THE MONUMENT

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	1900 (6234)	1960 (6430) (1.5%)	1900 (6234)	1900 (6234)
OBST dirt mound, 4FT ABV and 22M FM RWS (54M NE RWY CL) not taken into account in calculation of TODA or STODA.					
32	(3)	1900 (6234)	1960 (6430) (3.33%)	1900 (6234)	1900 (6234)
Slope Level. RWY WID 30 RWS WID 150 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY32- 1702(5584)(1.6) 1776(5827)(1.9) 1829(6001)(2.2) 1869(6132)(2.5)

THEODORE

RWY	(CN)	TORA	TODA	ASDA	LDA
17	(3)	1350 (4429)	1410 (4626) (1.6%)	1350 (4429)	1350 (4429)
35	(3)	1350 (4429)	1410 (4626) (1.95%)	1350 (4429)	1350 (4429)
Slope FM centre down 0.7% to N and 0.5% to S. RWY WID 30 RWS WID 90 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY35- 1317(4321)(1.6) 1391(4564)(1.9)

THUNDERBOX

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(3)	2000 (6562)	2060 (6758) (1.76%)	2000 (6562)	2000 (6562)
25	(3)	2000 (6562)	2060 (6758) (2.65%)	2000 (6562)	2000 (6562)
Slope 0.14% down to E. RWY WID 30 RWS WID 90 Graded 60					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY07- 1995(6545)(1.6)
RWY25- 1816(5958)(1.6) 1915(6283)(1.9) 1985(6512)(2.2) 2038(6686)(2.5)

TIBOOBURRA

RWY	(CN)	TORA	TODA	ASDA	LDA
02	(2)	976 (3202)	1036 (3399) (4.07%)	976 (3202)	976 (3202)
3.3% OBST clear APCH SFC LDG RWY 20 terminates at THR not RWS end.					
20	(2)	976 (3202)	1036 (3399) (5.44%)	976 (3202)	976 (3202)
3.3% OBST clear APCH SFC LDG RWY 02 terminates at THR not RWS end.					
Slope 0.4% down to SW. RWY WID 18 RWS WID 90					
15	(2)	1532 (5026)	1592 (5223) (5.14%)	1532 (5026)	1532 (5026)
4% OBST clear APCH SFC LDG RWY 33 terminates at THR not RWS end.					
33	(2)	1532 (5026)	1592 (5223) (9.22%)	1532 (5026)	1532 (5026)
4% OBST clear APCH SFC LDG RWY 15 terminates at THR not RWS end.					
Slope 1.0% down to SE. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY02- 819(2687)(1.6) 889(2917)(1.9) 934(3064)(2.2) 966(3169)(2.5) 1019(3343)(3.3)
RWY20- 973(3192)(1.6) 986(3235)(1.9) 995(3264)(2.2) 1003(3291)(2.5) 1017(3337)(3.3)
RWY15- 1528(5013)(1.6) 1550(5085)(1.9) 1564(5131)(2.2) 1569(5148)(2.5) 1580(5184)(3.3)
RWY33- 1039(3409)(1.6) 1277(4190)(1.9) 1381(4531)(2.2) 1449(4754)(2.5) 1520(4987)(3.3)

TINDAL

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(MIL)	2444 (8018)	2589 (8494) (3.3%)	2444 (8018)	2444 (8018)
32	(MIL)	2444 (8018)	2504 (8215) (1.6%)	2444 (8018)	2444 (8018)

1. TKOF/Climb SFC inner edge WID 180.

Slope Level to SE to 317M, then up 0.3% to 1515M, then up 0.1% to RWY end. RWY WID 45 RWS WID 280

OPERATIONAL READINESS PLATFORMS (ORP)

TEMPO DISP THR RWY 14 marked by four white cones either side of the RWY, 242M from the RWY 14 end.

RWY	TORA	TODA	ASDA	LDA
14	2444(8018)	2589(8494)(3.3%)	2444(8018)	2202(7224)
32	2444(8018)	2504(8215)(3.8)	2444(8018)	2444(8018)

SUPPLEMENTARY TAKEOFF DISTANCES

RWY	TORA	TODA	ASDA	LDA
32	2237(7339)(1.6)	2293(7522)(1.9)	2308(7572)(2.0)	2333(7654)(2.2)
	2364(7755)(2.5)	2402(7880)(3.0)	2419(7936)(3.3)	

TEMPO DISP THR RWY 32 marked by four white cones either side of the RWY, 617M from the RWY 32 end.

RWY	TORA	TODA	ASDA	LDA
14	1827(5994)	1827(5994)(5.0%)	1827(5994)	1827(5994)
32	1827(5994)	1887(6190)(1.6%)	1827(5994)	1827(5994)

SUPPLEMENTARY TAKEOFF DISTANCES

RWY	TORA	TODA	ASDA	LDA
14	1639(5377)(1.6%)	1729(5672)(2.5%)	1769(5803)(3.3%)	

SUPPLEMENTARY TAKEOFF DISTANCES

RWY14- 2239(7346)(1.6) 2348(7703)(1.9) 2362(7749)(2.0) 2406(7894)(2.2) 2444(8018)(2.5)

TOCUMWAL

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(2)	1200 (3937)	1260 (4134) (3.62%)	1200 (3937)	1200 (3937)
27	(2)	1200 (3937)	1260 (4134) (2.11%)	1200 (3937)	1200 (3937)

CAUTION: Transient OBST up to 15.1FT ABV and 121M W of RWS end has not been taken into account in calculating TODA GRAD and STODA.

Slope 0.2% down to W. RWY Code 2. RWY WID 30 RWS WID 90

18	(2)	1273 (4176)	1333 (4373) (3.82%)	1273 (4176)	1273 (4176)
36	(2)	1273 (4176)	1460 (4790) (2.33%)	1273 (4176)	1273 (4176)

Slope 0.1% down to N. RWY Code 2. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY09-	958(3143)(2.2)	1083(3553)(2.5)	1226(4022)(3.3)		
RWY27-	1218(3996)(1.6)	1246(4088)(1.9)			
RWY18-	936(3071)(1.9)	1047(3435)(2.2)	1130(3707)(2.5)	1279(4196)(3.3)	
RWY36-	1138(3734)(1.6)	1300(4265)(1.9)	1419(4655)(2.2)		

TOOWOOMBA

RWY	(CN)	TORA	TODA	ASDA	LDA
06	(1)	660 (2165)	690 (2264) (5%)	660 (2165)	660 (2165)
24	(1)	660 (2165)	690 (2264) (2.39%)	660 (2165)	660 (2165)
Slope 1.2% down to SW. RWY WID 18 RWS WID 60					
11	(2)	1221 (4006)	1281 (4203) (1.91%)	1221 (4006)	1221 (4006)
29	(2)	1221 (4006)	1281 (4203) (1.28%)	1221 (4006)	1221 (4006)

1. TKOF run for jet OPS commences at the THR for both directions on RWY 11/29. The TORA, STODA, TODA and ASDA for jet OPS shown above.
2. TKOF run for non-jet OPS on RWY 11/29 at RESA end for both directions. TORA, STODA, TODA and ASDA length for non-jet OPS are increased by 120M.
3. AD is rated Code 2C.
4. RWY 11/29 - distance to run markers - 300/600M southern side.
Slope FM W end 1.2% up to E for 405M, then down 0.7% to E RESA end. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY11- 1097(3599)(1.6) 1278(4193)(1.9)

TOWNSVILLE/TOWNSVILLE INTL

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(4)	2438 (7999)	2640 (8661) (2.23%)	2438 (7999)	2438 (7999)

1. RWY 01 TODA GRAD and STODA is based on a reduced length of defined TKOF SFC surveyed to 7500M.

19	(4)	2438 (7999)	2640 (8661) (2.77%)	2438 (7999)	2438 (7999)
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2. RWY 01 THR LCA is determined by a 3.01% clear GRAD to THR.
- RWY 19 THR LCA is determined by a reduced length of defined APCH SFC surveyed to 7,500M with a 300M inner edge.
Slope 0.1% down to N. RWY WID 45 RWS WID 300 Graded 150

07	(2)	1100 (3609)	1160 (3806) (3.19%)	1100 (3609)	1100 (3609)
25	(2)	1100 (3609)	1160 (3806) (2.93%)	1100 (3609)	1100 (3609)

- RWY 07/25 surveyed to 90M wide inner edge.
Slope Level. RWY WID 30 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY01- 2564(8412)(1.6) 2607(8553)(1.9) 2638(8655)(2.2)
 RWY19- 1895(6217)(1.6) 2487(8159)(1.9) 2554(8379)(2.2) 2605(8546)(2.5)
 RWY07- 868(2848)(2.2) 979(3212)(2.5)
 RWY25- 1104(3622)(1.6) 1123(3684)(1.9) 1138(3734)(2.2) 1149(3770)(2.5)

TREPELL

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	1800 (5905)	1860 (6102) (1.99%)	1800 (5905)	1800 (5905)
32	(3)	1800 (5905)	1860 (6102) (2.41%)	1800 (5905)	1800 (5905)

- Slope 0.26% down to SE. RWY WID 30 RWS WID 150 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY14- 1800(5905)(1.6) 1844(6050)(1.9)
 RWY32- 1722(5650)(1.6) 1791(5876)(1.9) 1840(6037)(2.2)

TROPICANA

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(3)	2100 (6890)	2160 (7087) (2.2%)	2100 (6890)	2100 (6890)
27	(3)	2100 (6890)	2160 (7087) (2.86%)	2100 (6890)	2100 (6890)

Slope 0.5% down to E. RWY WID 30 RWS WID 150 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY09-	2043(6703)(1.6)	2117(6945)(1.9)			
RWY27-	1211(3973)(1.6)	1544(5066)(1.9)	1824(5984)(2.2)	2074(6804)(2.5)	

TROUGHTON ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(2)	982 (3222)	1042 (3419) (1.2%)	982 (3222)	982 (3222)
32	(2)	982 (3222)	1042 (3419) (1.2%)	982 (3222)	982 (3222)

1. RESA commences from RWY end.

Slope 0.9% down to SE and 0.9% down to NW. RWY WID 30 RWS WID 90

TRUSCOTT-MUNGALALU

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1800 (5905)	1860 (6102) (3.29%)	1800 (5905)	1800 (5905)
30	(3)	1800 (5905)	1860 (6102) (2.56%)	1800 (5905)	1800 (5905)

1. RWY 12 OBST fence, 4FT ABV and 80M left of RWS end centreline not taken into account in the calculation of TODA GRAD and STODA.

2. Transitions infringed by trees.

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY12-	1310(4298)(1.6)	1503(4931)(1.9)	1628(5341)(2.2)	1716(5630)(2.5)	
RWY30-	1525(5003)(1.6)	1666(5466)(1.9)	1775(5823)(2.2)	1847(6060)(2.5)	

TUMBY BAY

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(2)	1097 (3599)	1157 (3796) (4.02%)	1097 (3599)	1097 (3599)
33	(2)	1097 (3599)	1157 (3796) (1.81%)	1097 (3599)	1097 (3599)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY15-	906(2972)(1.6)	970(3182)(1.9)	1021(3350)(2.2)	1061(3481)(2.5)	1134(3720)(3.3)
RWY33-	1017(3337)(1.6)				

TUMUT

RWY	(CN)	TORA	TODA	ASDA	LDA
17	(1)	1060 (3478)	1120 (3674) (5.29%)	1060 (3478)	1060 (3478)
35	(1)	1060 (3478)	1120 (3674) (2.95%)	1060 (3478)	1060 (3478)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY17-	862(2828)(3.3)	1100(3609)(5.0)			
RWY35-	851(2792)(2.5)				

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WAGGA WAGGA

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1770 (5807)	1830 (6004) (3.28%)	1770 (5807)	1770 (5807)
23	(3)	1770 (5807)	1830 (6004) (2.02%)	1770 (5807)	1770 (5807)
Slope 0.2% down to NE. RWY WID 45 RWS WID 150					
12	(1)	851 (2792)	911 (2989) (3.25%)	851 (2792)	851 (2792)
30	(1)	851 (2792)	924 (3031) (3.46%)	851 (2792)	851 (2792)
Slope 0.6% down to NW. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05-	918(3012)(1.6)	1593(5226)(1.9)	1812(5945)(2.2)	1819(5968)(2.5)
RWY23-	1671(5482)(1.6)	1789(5869)(1.9)		
RWY12-	801(2628)(2.2)	843(2766)(2.5)		
RWY30-	833(2733)(2.5)	917(3008)(3.3)		

WALGETT

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1626 (5335)	1686 (5531) (4.61%)	1626 (5335)	1626 (5335)
CAUTION: OBST Fence 3.9FT ABV and PARL to RWY, 75M SE of RCL, is not taken into account in determining TODA GRAD and STODA.					
23	(3)	1626 (5335)	1686 (5531) (8.72%)	1626 (5335)	1626 (5335)
CAUTION: OBST Fence 2.8FT ABV and PARL to RWY, 89M SE of RCL, is not taken into account in determining TODA GRAD and STODA.					
Slope Level. RWY WID 30 RWS WID 150 Graded 90					
18	(2)	1153 (3783)	1213 (3980) (2.58%)	1153 (3783)	1153 (3783)
36	(2)	1153 (3783)	1213 (3980) (5.12%)	1153 (3783)	1153 (3783)
Slope Level. RWY WID 30 RWS WID 90 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05-	1272(4173)(1.6)	1408(4619)(1.9)	1504(4934)(2.2)	1574(5164)(2.5)	1636(5367)(3.3)
RWY23-	858(2815)(1.9)	1001(3284)(2.2)	1103(3619)(2.5)	1303(4275)(3.3)	1512(4961)(5.0)
RWY18-	1084(3556)(1.6)	1136(3727)(1.9)	1176(3858)(2.2)	1207(3960)(2.5)	
RWY36-	870(2854)(2.2)	970(3182)(2.5)	1121(3678)(3.3)	1211(3973)(5.0)	

WANGARATTA

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(1)	530 (1739)	560 (1837) (4.66%)	530 (1739)	530 (1739)
27	(1)	530 (1739)	560 (1837) (4.93%)	530 (1739)	530 (1739)
Slope 0.2% down to W. RWY WID 18 RWS WID 60					
18	(3)	1640 (5381)	1700 (5577) (5.24%)	1640 (5381)	1640 (5381)
Unlit OBST Fence 4.8FT ABV and 30M S of RWS end has not been taken into account in the calculation of the TODA GRAD and STODA.					
36	(3)	1640 (5381)	1700 (5577) (3.34%)	1640 (5381)	1640 (5381)
1. 3.33% OBST CLR APCH SFC LDG RWY 36 terminates at THR not RWS end.					
2. LDG RWY 36 - Unlit OBST is fence 4.8FT ABV and 30M S of RWS end.					
3. Transitional SFC infringing on W side by isolated trees.					
Slope 0.1% down to N. RWY WID 30 RWS WID 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY18-	989(3245)(1.9)	1144(3753)(2.2)	1261(4137)(2.5)	1472(4829)(3.3)	1681(5515)(5.0)
RWY36-	1078(3537)(1.6)	1263(4144)(1.9)	1399(4590)(2.2)	1503(4931)(2.5)	1699(5574)(3.3)

WARBURTON

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(2)	1590 (5216)	1650 (5413) (4.08%)	1590 (5216)	1590 (5216)
36	(2)	1590 (5216)	1650 (5413) (3.41%)	1590 (5216)	1590 (5216)

Slope 0.2% down to S. RWY WID 23 RWS WID 80

SUPPLEMENTARY TAKEOFF DISTANCES

RWY18-	1318(4324)(1.6)	1400(4593)(1.9)	1461(4793)(2.2)	1509(4951)(2.5)	1596(5236)(3.3)
RWY36-	1436(4711)(1.6)	1503(4931)(1.9)	1550(5085)(2.2)	1584(5197)(2.5)	1644(5394)(3.3)

WARRACKNABEAL

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(3)	1372 (4501)	1432 (4698) (1.67%)	1372 (4501)	1372 (4501)

Fence 2.1FT ABV and PARL to RWY, 57M S of RCL, is not taken into account in calculating TODA GRAD and STODA.

26	(3)	1372 (4501)	1432 (4698) (3.03%)	1372 (4501)	1372 (4501)
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CAUTION: Side transitions infringed.

Slope 0.3% from THR's down to centre. RWY WID 30 RWS WID 150 Graded 90

17	(1)	763 (2503)	823 (2700) (2.04%)	763 (2503)	763 (2503)
35	(1)	763 (2503)	823 (2700) (1.94%)	763 (2503)	763 (2503)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08-	1382(4534)(1.6)				
RWY26-	1236(4055)(1.6)	1308(4291)(1.9)	1360(4462)(2.2)	1395(4577)(2.5)	
RWY35-	805(2641)(1.9)				

WARREN

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(2)	1050 (3445)	1110 (3642) (2.9%)	1050 (3445)	1050 (3445)
21	(2)	1050 (3445)	1127 (3697) (3.08%)	1050 (3445)	1050 (3445)

Slope 0.8% down to SW. RWY WID 30 RWS WID 90

09	(2)	1189 (3901)	1249 (4098) (1.95%)	1189 (3901)	1189 (3901)
27	(2)	1189 (3901)	1249 (4098) (2.62%)	1189 (3901)	1189 (3901)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03-	834(2736)(1.9)	933(3061)(2.2)	1017(3337)(2.5)		
RWY21-	823(2700)(2.2)	949(3113)(2.5)			
RWY09-	1118(3668)(1.6)	1238(4062)(1.9)			
RWY27-	1026(3366)(1.6)	1109(3638)(1.9)	1168(3832)(2.2)	1227(4026)(2.5)	

WARRNAMBOOL

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(2)	1069 (3507)	1129 (3704) (3.12%)	1069 (3507)	1069 (3507)
22	(2)	1069 (3507)	1129 (3704) (1.55%)	1069 (3507)	1069 (3507)
Slope 0.2% down to SW. RWY WID 23 RWS WID 90					
13	(3)	1372 (4501)	1432 (4698) (6.74%)	1372 (4501)	1372 (4501)
Transient OBST 2.6FT ABV and 13.4M SE of RWS end not taken into account in the calculation of TODA, GRAD and STODA.					
31	(3)	1372 (4501)	1432 (4698) (2.95%)	1372 (4501)	1372 (4501)
1. Approach transitional surface infringed by trees N side approximately 53M from RWS end.					
2. Fence 4FT ABV and 16M NW of RWS end not taken into account in the calculation of TODA, GRAD and STODA.					
Slope 0.5% down to SE. RWY WID 30 RWS WID 150 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04-	927(3041)(1.9)	1049(3442)(2.2)	1077(3533)(2.5)		
RWY13-	1266(4153)(1.6)	1296(4252)(1.9)	1319(4327)(2.2)	1337(4386)(2.5)	1372(4501)(3.3)
	1413(4636)(5.0)				
RWY31-	827(2713)(1.6)	1070(3510)(1.9)	1252(4108)(2.2)	1346(4416)(2.5)	

WARWICK

RWY	(CN)	TORA	TODA	ASDA	LDA
09	(2)	1640 (5381)	1700 (5577) (5.05%)	1640 (5381)	1640 (5381)
27	(2)	1640 (5381)	1700 (5577) (3.7%)	1640 (5381)	1640 (5381)
Slope 0.26% down to W. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY09-	1377(4518)(1.6)	1459(4787)(1.9)	1516(4974)(2.2)	1557(5108)(2.5)	1628(5341)(3.3)
	1699(5574)(5.0)				
RWY27-	1034(3392)(1.6)	1209(3966)(1.9)	1341(4400)(2.2)	1444(4737)(2.5)	1634(5361)(3.3)

WEIPA

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(3)	1645 (5397)	1705 (5594) (1.77%)	1645 (5397)	1645 (5397)
30	(3)	1645 (5397)	1705 (5594) (2.85%)	1645 (5397)	1645 (5397)
Slope 0.1% down to NW. RWY WID 30 RWS WID 150 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY12-	1565(5134)(1.6)				
RWY30-	1424(4672)(1.6)	1534(5033)(1.9)	1615(5298)(2.2)	1668(5472)(2.5)	

WENTWORTH

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(2)	1400 (4593)	1460 (4790) (3.03%)	1400 (4593)	1400 (4593)
26	(2)	1400 (4593)	1460 (4790) (1.2%)	1400 (4593)	1400 (4593)
Slope Level. RWY WID 23 RWS WID 140					
17	(1)	936 (3071)	996 (3268) (3.38%)	936 (3071)	936 (3071)
35	(1)	936 (3071)	996 (3268) (5.71%)	936 (3071)	936 (3071)
OBST fence 5FT ABV and 32M N of RWS not taken into account in the calculation of TODA, GRAD and STODA.					
Slope Level. RWY WID 18 RWS WID 80					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY08-	915(3002)(1.6)	1143(3750)(1.9)	1297(4255)(2.2)	1366(4482)(2.5)	
RWY17-	882(2894)(2.5)	993(3258)(3.3)			
RWY35-	800(2625)(2.5)	903(2963)(3.3)	981(3218)(5.0)		

WEST ANGELAS

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1840 (6037)	1900 (6234) (2.77%)	1840 (6037)	1840 (6037)
Fence, 2,000M FM RWY 04 SOT, 39M N extended CL 2,354FT AMSL not taken into account in calculation of TODA gradients.					
22	(3)	1900 (6234)	1960 (6430) (3.49%)	1900 (6234)	1840 (6037)
RWY 22 DTHR 60M. Slope 1.07% down to SW. RWY WID 30 RWS WID 150 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY22- 1519(4984)(3.3)

WEST SALE

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	500 (1640)	560 (1837) (1.2%)	500 (1640)	500 (1640)
23	(1)	500 (1640)	560 (1837) (4.68%)	500 (1640)	500 (1640)
Slope 0.3% down to NE. RWY WID 30 RWS WID 90					
09	(3)	1803 (5915)	1863 (6112) (2.69%)	1803 (5915)	1803 (5915)
27	(3)	1803 (5915)	1863 (6112) (2.68%)	1803 (5915)	1803 (5915)
Slope 0.1% down to W. RWY WID 30 RWS WID 150 Graded 90					
14	(1)	699 (2293)	759 (2490) (5.25%)	699 (2293)	699 (2293)
32	(1)	699 (2293)	759 (2490) (3.7%)	699 (2293)	699 (2293)
Slope 1.2% down to NW. RWY WID 30 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCESRWY09- 1440(4724)(1.6) 1621(5318)(1.9) 1745(5725)(2.2) 1830(6004)(2.5)
RWY27- 1296(4252)(1.6) 1530(5020)(1.9) 1702(5584)(2.2) 1819(5968)(2.5)**WEST WYALONG**

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(1)	780 (2559)	840 (2756) (3.84%)	780 (2559)	780 (2559)
E RWY 04 transition SFC infringed.					
22	(1)	780 (2559)	840 (2756) (4.11%)	780 (2559)	780 (2559)
Slope 0.2% down to SW. RWY WID 18 RWS WID 90					
09	(3)	1585 (5200)	1645 (5397) (3.07%)	1585 (5200)	1585 (5200)
27	(3)	1585 (5200)	1645 (5397) (4.06%)	1585 (5200)	1585 (5200)
Slope 0.3% down to E. RWY WID 30 RWS WID 150					

SUPPLEMENTARY TAKEOFF DISTANCESRWY09- 1277(4190)(1.6) 1393(4570)(1.9) 1506(4941)(2.2) 1584(5197)(2.5)
RWY27- 861(2825)(1.9) 1102(3615)(2.2) 1232(4042)(2.5) 1520(4987)(3.3)**WHITE CLIFFS**

RWY	(CN)	TORA	TODA	ASDA	LDA
02	(2)	868 (2848)	928 (3045) (1.53%)	868 (2848)	868 (2848)
20	(2)	868 (2848)	928 (3045) (1.57%)	868 (2848)	868 (2848)
Slope 0.12% down to SW. RWY WID 30 RWS WID 90 Graded 90					
12	(1)	1079 (3540)	1139 (3737) (4.21%)	1079 (3540)	1079 (3540)
30	(1)	1079 (3540)	1139 (3737) (1.2%)	1079 (3540)	1079 (3540)
Slope 0.7% down to NW. RWY WID 18 RWS WID 90 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY12- 1028(3373)(1.9) 1065(3494)(2.2) 1087(3566)(2.5) 1119(3671)(3.3)

WHYALLA

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1500 (4921)	1708 (5604) (2.1%)	1500 (4921)	1500 (4921)
23	(3)	1500 (4921)	1560 (5118) (2.02%)	1500 (4921)	1500 (4921)
Slope 0.1% down to NE. RWY WID 30 RWS WID 90					
17	(3)	1686 (5531)	1747 (5732) (1.65%)	1686 (5531)	1686 (5531)
35	(3)	1686 (5531)	1836 (6024) (2.46%)	1686 (5531)	1686 (5531)
Slope 0.2% down to S. RWY WID 30 RWS WID 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05-	1466(4810)(1.6)	1625(5331)(1.9)
RWY23-	1528(5013)(1.6)	1553(5095)(1.9)
RWY17-	1727(5666)(1.6)	
RWY35-	1709(5607)(1.6)	1764(5787)(1.9) 1808(5932)(2.2)

WILCANNIA

RWY	(CN)	TORA	TODA	ASDA	LDA
03	(1)	931 (3054)	991 (3251) (3.63%)	931 (3054)	931 (3054)
21	(1)	931 (3054)	991 (3251) (1.4%)	931 (3054)	931 (3054)
Instrument surveyed for a Code 2 non-instrument APCH RWY, with 60M CWY at each end and a 90M common APCH and TKOF inner edge length applied for published TODA end GRAD calculations.					
Slope 0.3% down to SW. RWY WID 18 RWS WID 90 Graded 90					
09	(2)	1097 (3599)	1157 (3796) (4.28%)	1097 (3599)	1097 (3599)
27	(2)	1097 (3599)	1157 (3796) (4%)	1097 (3599)	1097 (3599)
1. A 90M common APCH and TKOF inner edge length applied for published TODA end GRAD calculations.					
2. Non-standard U-Bar white markings define the RWY THR at each end.					
Slope 0.2% down to W. RWY WID 30 RWS WID 90 Graded 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY03-	825(2707)(1.6)	877(2877)(1.9)	917(3008)(2.2)	943(3094)(2.5)	952(3123)(3.3)
RWY09-	1040(3412)(1.6)	1069(3507)(1.9)	1091(3579)(2.2)	1108(3635)(2.5)	1139(3737)(3.3)
RWY27-	1085(3560)(1.6)	1101(3612)(1.9)	1116(3661)(2.2)	1127(3697)(2.5)	1147(3763)(3.3)

WILLIAMTOWN

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(MIL)	3058 (10033)	3118 (10230) (2.2%)	3058 (10033)	3058 (10033)
1. M34B arrestor barrier anchor points at end of CWY, 5FT AGL and 28M outside extended RWY CL, are not considered in the calculation of TODA GRAD and STODA.					
2. RWY 12 THR location determined by 2.33% APCH GRAD.					
3. Critical OBST on take-off, power pole 39FT AGL (43FT AMSL), located 176M (577FT) R of RCL and 312M (1023FT) beyond THR 30.					
4. Critical OBST on landing, tree 64FT AGL (146FT AMSL), located 56M (184FT) L of RCL and 1535M (5,036FT) before THR 12.					
30	(MIL)	3058 (10033)	3118 (10230) (2.33%)	3058 (10033)	3058 (10033)
1. M34B arrestor barrier anchor points at end of CWY, 5FT AGL and 28M outside extended RWY CL, are not considered in the calculation of TODA GRAD and STODA.					
2. RWY 30 THR location determined by 2.2% APCH GRAD.					
3. Critical OBST on take-off, tree 64FT AGL (146FT AMSL), located 56M (184FT) R of RCL and 1535M (5,036FT) beyond THR 12.					
4. Critical OBST on landing, power pole 39FT AGL (43FT AMSL), located 176M (577FT) L of RCL and 312M (1023FT) before THR 30.					
Slope 0.13% down to SE. RWY WID 45 RWS WID 280 Graded 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY12- 3001(9846)(1.6) 3069(10069)(1.9)
 RWY30- 2426(7959)(1.6) 2778(9114)(1.9) 3033(9951)(2.2)

TAXIWAY INTERSECTION DECLARED DISTANCES

RWY12- TKOF from TWY A3; RWY remaining 2176(7139) reduce all DIST by 882(2894)
 RWY12- TKOF from TWY A4; RWY remaining 2778(9114) reduce all DIST by 280(919)
 RWY12- TKOF from TWY B; RWY remaining 1100(3609) reduce all DIST by 1958(6424)
 RWY12- TKOF from TWY H; RWY remaining 1078(3537) reduce all DIST by 1980(6496)
 RWY30- TKOF from TWY A2; RWY remaining 2717(8914) reduce all DIST by 341(1119)
 RWY30- TKOF from TWY B; RWY remaining 1981(6499) reduce all DIST by 1077(3533)
 RWY30- TKOF from TWY H; RWY remaining 1997(6552) reduce all DIST by 1061(3481)

WILUNA

RWY	(CN)	TORA	TODA	ASDA	LDA
15	(3)	1811 (5942)	1871 (6138) (1.2%)	1811 (5942)	1811 (5942)
33	(3)	1811 (5942)	1871 (6138) (2.83%)	1811 (5942)	1811 (5942)

Slope 0.44% down to SE. RWY WID 30 RWS WID 150 Graded 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY33- 1643(5390)(1.6) 1735(5692)(1.9) 1796(5892)(2.2) 1840(6037)(2.5)

WINDARLING

RWY	(CN)	TORA	TODA	ASDA	LDA
10	(3)	1850 (6069)	1910 (6266) (3.5%)	1850 (6069)	1850 (6069)
28	(3)	1850 (6069)	1910 (6266) (3.1%)	1850 (6069)	1850 (6069)

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY10- 1528(5013)(1.6) 1694(5558)(1.9) 1789(5869)(2.2) 1850(6069)(2.5) 1903(6243)(3.3)
 RWY28- 1797(5896)(1.6) 1830(6004)(1.9) 1855(6086)(2.2) 1877(6158)(2.5)

WINDORAH

RWY	(CN)	TORA	TODA	ASDA	LDA
04	(3)	1374 (4508)	1434 (4705) (2.85%)	1374 (4508)	1374 (4508)
22	(3)	1374 (4508)	1434 (4705) (3.05%)	1374 (4508)	1374 (4508)

Slope FM centre 0.65% down to SW and 0.50% down to NE. RWY WID 30 RWS WID 150

SUPPLEMENTARY TAKEOFF DISTANCES

RWY04- 1357(4452)(1.6) 1385(4544)(1.9) 1405(4610)(2.2) 1420(4659)(2.5)
 RWY22- 1023(3356)(1.6) 1166(3825)(1.9) 1272(4173)(2.2) 1352(4436)(2.5)

WINTON

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	890 (2920)	950 (3117) (2%)	890 (2920)	890 (2920)
23	(1)	890 (2920)	950 (3117) (2%)	890 (2920)	890 (2920)

Slope 0.1% down to SW. RWY WID 18 RWS WID 60

14	(3)	1402 (4600)	1462 (4797) (1.2%)	1402 (4600)	1402 (4600)
32	(3)	1402 (4600)	1462 (4797) (1.2%)	1402 (4600)	1402 (4600)

Slope 0.5% down to SE. RWY WID 30 RWS WID 150 Graded 90

WOODIE WOODIE

RWY	(CN)	TORA	TODA	ASDA	LDA
14	(3)	2000 (6562)	2060 (6758) (1.2%)	2000 (6562)	2000 (6562)
32	(3)	2000 (6562)	2060 (6758) (1.2%)	2000 (6562)	2000 (6562)

APCH RWY survey areas - RWY 14/32 APCH inner edge 150M.

Slope 430M NW end 1.47% down to SE: centre 1230M 1.07% down to NW: 340M SE end 0.68% down to NW. RWY WID 30 RWS WID 150 Graded 90

WOOMERA

RWY	(CN)	TORA	TODA	ASDA	LDA
18	(3)	2372 (7782)	2672 (8766) (1%)	2372 (7782)	2372 (7782)
36	(3)	2372 (7782)	2672 (8766) (1%)	2372 (7782)	2372 (7782)

TKOF/CLIMB SFC Inner Edge WID 230M. Open Swale Drains 45M from CL.

Slope 0.14% down to N. RWY WID 45 RWS WID 230 Graded 90

WUDINNA

RWY	(CN)	TORA	TODA	ASDA	LDA
07	(2)	939 (3081)	999 (3278) (2.94%)	939 (3081)	939 (3081)
25	(2)	939 (3081)	999 (3278) (3.1%)	939 (3081)	939 (3081)
14	(3)	1510 (4954)	1570 (5151) (4.66%)	1510 (4954)	1510 (4954)
32	(3)	1510 (4954)	1570 (5151) (3.27%)	1510 (4954)	1510 (4954)

Slope W end 1.3% down to E, 300M E end level. RWY WID 18 RWS WID 90
 RWY 14/32 OBST - Fence 8.2FT ABV and 55M NW of RWS end not taken into account in the calculation of TODA GRAD and STODA. 3.3% OBST clear APCH SFC LDG RWY 14 terminates at THR not RWS end.

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY07-	849(2785)(1.9)	902(2959)(2.2)	945(3100)(2.5)
RWY14-	1315(4314)(1.6)	1371(4498)(1.9)	1410(4626)(2.2) 1441(4728)(2.5) 1503(4931)(3.3)
RWY32-	1011(3317)(1.9)	1226(4022)(2.2)	1370(4495)(2.5)

WYCHEPROOF

RWY	(CN)	TORA	TODA	ASDA	LDA
08	(1)	718 (2356)	778 (2552) (1.79%)	718 (2356)	718 (2356)
26	(1)	718 (2356)	778 (2552) (3.46%)	718 (2356)	718 (2356)
17	(2)	1032 (3386)	1092 (3583) (1.66%)	1032 (3386)	1032 (3386)
35	(2)	1032 (3386)	1092 (3583) (3.25%)	1032 (3386)	1032 (3386)

Slope Level. RWY WID 30 RWS WID 90
 Fence 2.6FT ABV and 30M S of RWS end, is not taken into account in the calculation of TODA GRAD and STODA.

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

SUPPLEMENTARY TAKEOFF DISTANCES

RWY17-	1056(3465)(1.6)
RWY35-	870(2854)(1.9) 945(3100)(2.2) 1000(3281)(2.5)

WYNDHAM

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(2)	1607 (5272)	1667 (5469) (3.3%)	1607 (5272)	1607 (5272)
30	(2)	1607 (5272)	1667 (5469) (3.02%)	1607 (5272)	1607 (5272)

Slope Level. RWY WID 18 RWS WID 90

SUPPLEMENTARY TAKEOFF DISTANCES

RWY12-	885(2904)(1.6)	1124(3688)(1.9)	1298(4258)(2.2)	1430(4692)(2.5)
RWY30-	1451(4760)(1.6)	1531(5023)(1.9)	1590(5216)(2.2)	1631(5351)(2.5)

WYNYARD

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	827 (2713)	857 (2812) (3.5%)	827 (2713)	777 (2549)
1. Fence 7.2FT ABV and 7M NE of RWS end is not taken into account in the calculation of TODA GRAD.					
2. RWY 05 DTHR 50M.					
23	(1)	827 (2713)	857 (2812) (5.4%)	827 (2713)	767 (2516)
1. RWY 05/23 approach and side transitions infringed.					
2. RWY 23 DTHR 60M.					
Slope 1% down to NE. RWY WID 18 RWS WID 60					
09	(3)	1650 (5413)	1710 (5610) (2.42%)	1650 (5413)	1650 (5413)
27	(3)	1650 (5413)	1710 (5610) (2.77%)	1650 (5413)	1650 (5413)
Slope 0.6% down to E. RWY WID 30 RWS WID 150					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05-	849(2785)(3.3)		
RWY09-	1385(4544)(1.6)	1533(5029)(1.9)	1643(5390)(2.2)
RWY27-	1195(3921)(2.2)	1508(4947)(2.5)	

YARRAM

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(1)	1090 (3576)	1150 (3773) (4.39%)	1090 (3576)	1090 (3576)
23	(1)	1090 (3576)	1150 (3773) (1.2%)	1090 (3576)	1090 (3576)
Slope 0.4% down to SW. RWY WID 18 RWS WID 60					
09	(1)	756 (2480)	816 (2677) (2.16%)	756 (2480)	756 (2480)
27	(1)	756 (2480)	816 (2677) (1.2%)	756 (2480)	756 (2480)
Slope 0.2% down to W. RWY WID 23 RWS WID 80					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY05- 861(2825)(2.5) 1027(3369)(3.3)

YARRAWONGA

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(2)	1143 (3750)	1203 (3947) (5.16%)	1143 (3750)	1143 (3750)
Transient OBST 13.3FT ABV and 37M N of RWS end, and transient OBST, mobile sprinkler, 24.6FT high operates along the takeoff area, are not taken into account in calculating TODA GRAD and STODA, or in locating 19 THR.					
19	(2)	1203 (3947)	1263 (4144) (3.06%)	1203 (3947)	1125 (3691)
RWY 19 DTHR 18M. Slope Level. RWY WID 18 RWS WID 90					
05	(1)	446 (1463)	476 (1562) (4.36%)	446 (1463)	446 (1463)
23	(1)	446 (1463)	476 (1562) (6.33%)	446 (1463)	446 (1463)
Slope 0.1% down to SW. RWY WID 18 RWS WID 60					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY01- 964(3163)(1.6) 1024(3360)(1.9) 1065(3494)(2.2) 1094(3589)(2.5) 1144(3753)(3.3)
1199(3934)(5.0)
RWY19- 905(2969)(2.2) 1057(3468)(2.5)

YORKE ISLAND

RWY	(CN)	TORA	TODA	ASDA	LDA
12	(1)	1000 (3281)	1000 (3281) (1.6%)	1000 (3281)	940 (3084)
1. RWY 12 DTHR 60M. 2. RWY 12 SOT commences at RWS end - ASDA ends at RWS. 3. Fence 1003M FM RWY 12 SOT, 5FT AGL.					
30	(1)	1000 (3281)	1000 (3281) (1.6%)	1000 (3281)	940 (3084)
1. RWY 30 DTHR 60M. 2. RWY 30 SOT commences at RWS end - ASDA ends at RWS. 3. Fence 1003M FM RWY 30 SOT, 5FT AGL. 4. RWY 12/30 transitional SFC infringed by trees on both sides of RWY. Slope Level. RWY WID 18 RWS WID 60					

YOUNG

RWY	(CN)	TORA	TODA	ASDA	LDA
01	(2)	1220 (4003)	1280 (4199) (2.51%)	1220 (4003)	1220 (4003)
19	(2)	1220 (4003)	1280 (4199) (2.58%)	1220 (4003)	1220 (4003)
1. OBST fence 4FT ABV and 16M S of RWS end has not been taken into account in calculating TODA GRAD and STODA. 2. Transient OBST, vehicles, MAX height 5M, not accounted for in locating THR RWY 19. Slope 0.4% down to N. RWY WID 18 RWS WID 90					

SUPPLEMENTARY TAKEOFF DISTANCES

RWY01- 918(3012)(1.6) 1138(3734)(1.9) 1208(3963)(2.2) 1279(4196)(2.5)
RWY19- 1038(3405)(2.2) 1243(4078)(2.5)