Manchester Airport Aerodrome Manual

Part D – Particulars of the Aerodrome Required to be Reported to the Aeronautical Information Service

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Version Control

Date	Amendment	Page(s)	New Version
23/10/26	Publication	All	V1.0
21/10/26	Inclusion of map highlighting over/undershoot areas	26	V0.4
03/08/26	Insertion of declared distances images	19-20	V0.3
29/07/26	Amendments to RFFS levels of protection	21-25	V0.2
17/06/26	Creation of Part D	All	V0.1

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5. The aeronautical information services available and the procedures for the promulgation of general information.

Changes required to the Manchester Airport entry into the AIP, are facilitated by technical safeguarding manager. The following information pertinent to the Manchester Airport aerodrome are reported to the Aeronautical Information Service (AIS) and can be found in the EGCC AIP as specified below:

5.1 The name of the aerodrome

Manchester Airport,
Wythenshawe,
Manchester,
M90 1QX.

5.2 The location of the aerodrome

Manchester Airport is located 7.5 NM SW of Manchester, United Kingdom.

5.3 The geographical coordinates of the aerodrome reference point

Latitude: 532113N
Longitude: 0021630W

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5.4 The aerodrome elevation and geoid undulation

Mid-Point of Runway 05L/23R	
Latitude	532114N 0021630W
Elevation	257ft
Geoid Undulation	167ft

5.5 The elevation of each threshold and geoid undulation, the elevation of the runway end, and any significant high and low points along the runway, and the highest elevation of the touchdown zone of a precision approach runway

	05L	23R	05R	23L
Threshold Elevation	212ft	249ft	186ft	227ft
Runway End Elevation	249ft	200ft	235ft	186ft
Significant High Point	257ft*	N/A	N/A	N/A

*Abeam Link Hotel Zulu.

5.6 The aerodrome reference temperature

Aerodrome reference temperature is 18°C.

5.7 Details of the aerodrome beacon, name of the aerodrome operator and contact details (including telephone numbers) of the aerodrome operator who may be always contacted.

Aerodrome beacons are not used at Manchester Airport.

6. Aerodrome dimensions and related information, inducing the following:

6.1 Runway — true bearing, designation number, length, width, displaced threshold location, slope, surface type, type of runway and, for a precision approach runway, the existence of an obstacle free zone;

The runway designator numbers used at Manchester Airport are 05L/23R and 05R/23L.

	05L	23R	05R	23L
True Heading	051°	231°	051°	231°
Length	3048m		3200m	
Width	45m		45m	
Runway Shoulders	23m		7.5m paved inner 7.5m stabilised grass outer	
Surface Type	Un-grooved asphalt (Bentons Bitumineaux Aeronautiques)		Grooved Marshall Asphalt	
Runway Slope	0.49% up	0.49% down	0.46% up	0.48% down
Sightlines	Owing to the humpbacked profile the full length of the runway may not be visible from the flight deck of an aircraft lined up at the end of the runway. The high point of the runway is abeam Link Golf.		Full length of runway visible from any point	
Threshold Co-ordinates	532051.20N 0021715.95W	532140.74N 0021533.41W	N/A	532053.35N 0021637.95W
Threshold Elevation	212ft	249ft	186ft	227ft
Displaced Threshold Location	426m from runway start	183m from runway start	N/A	333m from runway start
TORA	3014m	2897m	3047m	3200m
TODA	3229m	3197m	3347m	3500m
ASDA	3014m	2897m	3047m	3200m
LDA	2587m	2714m	2864m	2864m

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6.2 Length, width and surface type of strip, runway end safety areas, stop ways; length, width and surface type of taxiways; apron surface type and aircraft stands; clearway length and ground profile;

A runway strip which encloses both runways is a Code 4F, instrument runway, provided in accordance with CAA CS ADR-DSN.B.150 to CS ADR-DSN.B.175 inclusive. RESAs provided are more than the ICAO recommendation of 240m. The graded area provided exceeds CAA requirements.

	05L	23R	05R	23L
Starter Extension	N/A	N/A	N/A	150m x 30m
Reduced Strip width	N/A	N/A	N/A	96m
RESAs	240m x 90m	240m x 90m	351m x 90m	242m x 90m
Undershoot RESA	517m	390m	242m	534m
RESA Slopes	Less than 5%			
Navaids in RESA				
Clearways	215m	300m	300m	300m
Graded Area	210m		210m	
Stop-ways	Not Provided			

For further information on length, width and surface type of taxiways, refer to Part C 4.4.8.

Apron and aircraft stands are constructed from concrete, for further information on stand location, refer to Part D 6.6.3.

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6.3 Visual aids for approach procedures, approach lighting type and visual approach slope indicator system; marking and lighting of runways, taxiways, and aprons; other visual guidance and control aids on taxiways and aprons, location and type of visual docking guidance system; availability of standby power for lighting;

Lighting at Manchester Airport is provided to allow CAT IIIB operations on runway 05L/23R and CAT I on runway 05R and a non-precision approach on runway 23L.

6.3.1 Aeronautical Ground Lighting (AGL)

a) General

AGL is a vital part of the airport's operational infrastructure, enabling the continued safe operations of public transport flights at night and during adverse weather conditions.

Manchester Airport is certified to operate in Category IIIB weather conditions on runway 23L/05R.

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b) Provision of lighting – Runways

	Runway 05L	Runway 23R	Runway 05R	Runway 23L
H I App.	Coded centreline 908m Five cross bars	Coded centreline 914m Five cross bars	Coded centreline 900m Five cross bars	Coded centreline 900m Five cross bars
Supplementary App.	Inner 300m	Inner 300m	None	None
Touchdown Zone	900m LED	900m LED	None	None
PAPIs	RHS 3º 325m from displaced threshold	LHS 3º 357m from displaced threshold	LHS 3º 437m from threshold	LHS 3º 561m from displaced threshold
Threshold	HI **green** with wing bars	HI **green** with wing bars	HI **green** with wing bars	HI **green** with wing bars
Runway Edge	Bi-directional flush fitted 60m spacing LED	Bi-directional flush fitted 60m spacing LED	Bi-directional flush fitted 61m spacing	Bi-directional flush fitted 61m spacing
Runway Centreline	Coded 15m spacing LED	Coded 15m spacing LED	Coded 30m spacing	Coded 30m spacing
End Lights	HI **red**	HI **red**	HI **red** wing bars	HI **red**

c) Provision of lighting – Taxiways/Aprons

Taxiway and apron lighting conform to the requirements of UK Reg (EU) 139/2014 CS ADR-DSN.M.710

d) Provision of lighting – Obstructions

Engineering to maintain a comprehensive oversight of obstacle lighting locations. Obstacles off the airfield that require red obstacle lighting are the responsibility of the owner of the obstacle.

Engineering are responsible for the provision of obstacle lighting on the airfield, including temporary portable lights.

e) AGL Serviceability

Survey results to be analysed, any lamps which have fallen below 50% intensity or any adjacent lamp failures should be replaced/repaired. If this cannot be actioned, then all relevant stakeholders should be informed (Airfield Operations/Engineering Operations Management Team).

6.4 Location and radio frequency of VOR aerodrome checkpoints;

Instrument Landing Systems (ILS) are provided for Runway 05L (CAT III), 05R (CAT I) and 23R (CAT III).

6.5 Location and designation of standard taxi routes;

Please refer to AIP EGCC Chart 2.

6.6 Geographical coordinates of each threshold, appropriate taxiway centre line points, and aircraft stands;

6.6.1 Thresholds

Thresholds	05L	23R	05R	23L
WGS84 Co-ordinates	532051.20N 0021715.95W	532140.75N 0021533.41W	531955.10N 0021838.38W	532053.35N 0021637.95W
WGS84 Height	115.56m	126.90m	107.78m	120.16m
	379.14ft	416.35ft	353.60ft	394.29ft
OBSG36 Co-ordinates	380940.24 E 383443.88 N	382841.91 E 384967.78 N	379408.44 E 381716.83 N	381643.30 E 383507.68 N
OBSG Height	64.57m	75.93m	56.77m	69.18m
	211.84 ft	249.11ft	186.25ft	226.97ft

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6.6.2 Taxiway Holding Locations

ID	WGS84 Co-Ordinates		Elevation (AMSL)	
	Latitude	Longitude	M	FT
A1	532047.7728N	0021736.1695W	59.292	194.528
A2	532057.2916N	0021720.3062W	64.940	213.058
A3	532106.9939N	0021701.5718W	66.109	216.893
A4	532120.7559N	0021647.9899W	68.573	224.977
AF1	532058.0123N	0021713.6527W	66.413	217.890
AG1_E	532052.2344N	0021726.5773W	63.128	207.113
AG1_W	532051.8768N	0021727.3394W	62.844	206.181
B1	532107.7625N	0021655.0593W	67.512	221.496
B2	532113.1201N	0021650.4848W	68.201	223.757
B3	532122.4475N	0021635.3966W	69.797	228.993
B4	532125.0146N	0021630.5089W	70.755	232.136
B5	532127.5204N	0021625.3235W	71.885	235.843
B6	532129.6142N	0021620.9491W	72.763	238.724
BD	532108.2776N	0021653.8978W	67.488	221.417
BZ1	532059.0513N	0021647.5226W	68.718	225.453
C2	532125.3699N	0021638.4259W	69.768	228.898
D1	532120.2671N	0021644.6362W	68.799	225.719
D2	532128.2495N	0021643.2606W	69.504	228.031
D3	532132.1099N	0021642.8456W	70.014	229.705
D4	532135.6354N	0021644.3961W	69.134	226.818
D5	532138.0771N	0021647.7422W	68.507	224.760
D6	532140.8665N	0021651.8028W	69.648	228.504
D7	532144.0135N	0021657.1087W	69.947	229.485
D8	532147.4158N	0021702.8517W	68.805	225.738
DZ1	532113.0380N	0021618.9652W	74.114	243.156
E1	532122.7584N	0021639.5677W	69.423	227.766
E2	532127.2979N	0021638.8842W	69.813	229.045
E3	532145.7867N	0021655.0215W	69.470	227.920
E4	532137.2191N	0021640.4547W	69.515	228.068
E5	532140.1535N	0021644.7460W	69.621	228.415
E6	532142.6977N	0021648.6649W	69.070	226.608
E7	532145.9434N	0021654.1431W	69.349	227.523
E8	532149.2759N	0021659.7689W	68.262	223.957
E9	532152.3658N	0021707.5898W	67.313	220.843

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E10	532155.3417N	0021712.5913W	66.473	218.087
F1	532124.7893N	0021618.2495W	73.769	242.024
F2	532127.4756N	0021621.8765W	72.447	237.687
FZ1	532117.7719N	0021608.7812W	75.316	247.100
G1	532134.0998N	0021606.3854W	75.162	246.594
G2	532137.7426N	0021601.2778W	74.918	245.794
G3	532140.0884N	0021555.3887W	74.432	244.199
G4	532138.0445N	0021557.3302W	74.803	245.417
H1_E	532133.1523N	0021601.5499W	76.320	250.394
H1_W	532132.8562N	0021602.4712W	76.255	250.180
H2	532135.6080N	0021602.8826W	75.291	247.018
HZ1	532122.4672N	0021558.5031W	77.568	254.488
J1	532145.5860N	0021536.1294W	74.44	244.23
J2	532144.1123N	0021542.8068W	74.74	245.21
J3	532138.5786N	0021552.6577W	75.076	246.312
J4	532130.8870N	0021609.3436W	75.533	247.812
K1	532127.2286N	0021618.1828W	73.344	240.630
K2	532125.0884N	0021622.6128W	72.298	237.198
K3	532122.8010N	0021627.3453W	71.338	234.049
K4	532120.4046N	0021632.3036W	70.439	231.099
L1	532130.8008N	0021635.4510W	70.678	231.883
L2	532139.2189N	0021639.1430W	69.752	228.845
M1	532140.8335N	0021545.0108W	74.735	245.194
NA1	532159.0700N	0021715.2676W	65.790	215.846
NA2 BLUE	532200.8340N	0021714.0020W	66.075	216.781
NA2 ORANGE	532159.8322N	0021712.3131W	66.076	216.785
NB1	532152.1946N	0021701.3979W	67.545	221.604
NB2 BLUE	532153.9621N	0021700.1469W	67.704	222.126
NB2 ORANGE	532152.9933N	0021658.4059W	67.907	222.792
NB3	532155.5513N	0021655.8398W	67.739	222.241
NB3 BLUE	532156.0526N	0021656.6850W	67.627	221.873
NB3 ORANGE	532155.0491N	0021654.9940W	67.849	222.602
ND1	532146.0800N	0021650.4071W	69.230	227.133
ND2	532151.8937N	0021646.2021W	68.885	226.001
ND3	532155.2982N	0021651.5823W	68.077	223.350
P1	532120.1300N	0021627.8882W	71.704	235.249
P2	532122.8168N	0021631.5169W	70.451	231.138
P3	532125.4676N	0021634.5407W	70.072	229.895

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P4	532129.7151N	0021639.3178W	70.114	230.033
S1	532103.0999N	0021626.5943W	71.371	234.157
T1	532104.9036N	0021621.1963W	72.141	236.683
U1	532054.7418N	0021641.8663W	68.056	223.281
U2	532056.2906N	0021643.7967W	68.492	224.711
V1	532117.2762N	0021605.2162W	75.989	249.308
V3	532112.2971N	0021615.5223W	74.766	245.295
V4	532108.6322N	0021623.1060W	73.375	240.732
V5	532105.4270N	0021629.7360W	71.952	236.063
V6	532100.1375N	0021640.6849W	69.711	228.711
V7	532056.7797N	0021647.6299W	68.594	225.046
VA1	532101.1051N	0021629.3284W	70.612	231.667
VA2	532103.3285N	0021630.3065W	71.273	233.835
VB1	532057.6913N	0021636.3641W	69.548	228.176
VB2	532059.8989N	0021636.9439W	69.718	228.734
VC1	532050.8094N	0021653.0494W	66.636	218.622
VC2	532052.7777N	0021651.7820W	66.918	219.547
VD1	532044.7111N	0021705.6630W	63.702	208.996
VD2	532046.6827N	0021704.3972W	64.474	211.529
W1	532002.7984N	0021831.6407W	55.004	180.459
Y1	531957.6433N	0021841.0068W	55.721	182.812
Z1	532158.5118N	0021719.8532W	66.283	217.464
Z2 BLUE	532159.2206N	0021722.7626W	66.407	217.87
Z2 ORANGE	532200.2258N	0021721.1002W	66.117	216.919
Z2 BLUE	532207.7303N	0021724.2722W	66.707	218.855
Z3 ORANGE	532206.7370N	0021722.5957W	66.345	217.667

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6.6.3 Aircraft Stands

Stand	WGS84 Co-Ordinates		OSGB83 Co-Ordinates		Elevation (AMSL)	
	Latitude	Longitude	Easting	Northing	M	FT
1	532138.9910N	0021626.6903W	381856.835	384917.202	71.704	235.249
2	532138.7678N	0021629.9008W	381797.459	384910.532	71.007	232.963
4	532137.0828N	0021629.4029W	381806.463	384858.426	71.338	234.049
5	532136.7830N	0021627.0297W	381850.299	384848.995	71.735	235.351
6	532135.2235N	0021629.5500W	381803.521	384800.981	71.389	234.216
7	532135.4000N	0021627.3291W	381844.600	384806.276	71.729	235.331
8	532133.4653N	0021629.9721W	381795.509	384746.678	71.381	234.190
9	532133.7766N	0021627.5244W	381840.796	384756.125	71.690	235.203
10	532131.7246N	0021630.0943W	381793.044	384692.894	71.421	234.321
11	532132.2727N	0021627.8670W	381834.284	384709.674	71.721	235.305
12	532129.5899N	0021629.0801W	381811.539	384626.855	71.633	235.016
12L	532129.7860N	0021630.6389W	381782.745	384633.025	71.441	234.386
12R	532128.9401N	0021629.2269W	381808.747	384606.786	71.537	234.701
15	532130.4280N	0021627.6062W	381838.887	384652.650	71.819	235.627
16	TO BE SURVEYED					
17	TO BE SURVEYED					
22	532143.7931N	0021634.4849W	381713.317	385066.156	70.703	231.965
23	532142.3321N	0021633.8921W	381724.101	385020.964	70.725	232.037
24	532144.3926N	0021637.1787W	381663.592	385084.874	70.660	231.824
25	532142.4860N	0021636.8985W	381668.543	385025.934	70.656	231.811
26	532144.5642N	0021640.0691W	381610.183	385090.383	70.493	231.276
27	532142.9591N	0021638.5896W	381637.339	385040.675	70.708	231.982
28	532145.8090N	0021642.4383W	381566.538	385129.022	69.980	229.593
29	532143.5792N	0021643.0046W	381555.801	385060.157	70.028	229.751
31	532144.6331N	0021644.9767W	381519.472	385092.868	69.597	228.337
32	532145.5937N	0021643.7555W	381542.163	385122.464	69.761	228.875
41	532137.9814N	0021615.9609W	382055.061	384885.247	73.780	242.060
42	532136.0783N	0021615.3587W	382065.971	384826.392	73.713	241.841
43	532134.2028N	0021615.5817W	382061.628	384768.452	73.551	241.309
44	532133.0556N	0021614.9339W	382073.469	384732.953	73.673	241.709
44L	532133.1288N	0021615.6594W	382060.066	384735.268	73.494	241.122
44R	532132.2276N	0021615.3617W	382065.464	384707.396	73.643	241.611
47	532132.6373N	0021613.7752W	382094.840	384719.948	73.950	242.618

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48	532133.4332N	0021612.8475W	382112.083	384744.478	74.029	242.877
49	532135.4357N	0021612.5858W	382117.156	384806.341	73.906	242.474
50	532136.7047N	0021610.2118W	382161.191	384845.392	73.920	242.521
51	532137.7615N	0021608.6320W	382190.519	384877.938	73.975	242.700
52	532138.7415N	0021607.0963W	382219.022	384908.115	73.923	242.530
53	532139.7260N	0021605.5018W	382248.613	384938.429	73.933	242.562
54	532140.7914N	0021603.7638W	382280.865	384971.233	73.937	242.575
55	532142.1944N	0021601.1481W	382329.380	385014.406	73.982	242.723
55L	532141.6040N	0021601.1829W	382328.669	384996.165	74.106	243.130
55R	532142.3613N	0021559.2996W	382363.570	385019.436	74.191	243.409
57	532142.9883N	0021555.3759W	382436.175	385038.543	74.297	243.757
58	532143.8833N	0021553.5272W	382470.451	385066.074	74.114	243.156
61	532132.8464N	0021649.8309W	381428.309	384728.981	69.554	228.196
61L	532132.2010N	0021649.1812W	381440.242	384708.988	69.410	227.723
61R	532133.2270N	0021648.7458W	381448.415	384740.664	69.372	227.598
62	532134.1363N	0021649.7701W	381429.591	384768.837	69.494	227.999
70	532149.8335N	0021711.0638W	381037.887	385255.485	68.064	223.307
71	532149.8335N	0021711.0638W	381037.89	385255.49	68.064	223.307
72	532150.9415N	0021712.9971	381002.29	385289.87	67.693	222.089
73	532152.0962N	0021714.6449W	380971.97	385325.67	67.324	220.878
74L	532153.0960N	0021716.3352W	380940.85	385356.7	67.011	219.853
74R	532154.0205N	0021718.5728W	380899.61	385385.43	66.844	219.305
74	532154.8603N	0021720.3922W	380866.08	385411.52	66.86	219.356
80	532150.0528N	0021652.6804W	381377.726	385260.910	68.720	225.459
80L	532150.1240N	0021654.2772W	381348.218	385263.225	68.552	224.908
80R	532149.0867N	0021652.5670W	381379.704	385231.045	68.884	225.997
81	532151.9364N	0021655.5473W	381324.962	385319.326	68.182	223.694
101	532210.6628N	0021710.6593W	381047.95	385899.13	67.92	222.84
103	532209.6487N	0021712.3302W	381016.94	385867.92	67.61	221.83
104	532208.7783N	0021707.9361W	381098.04	385840.70	68.03	223.21
105	532208.6362N	0021714.0058W	380985.84	385836.75	67.32	220.86
106	532207.3209N	0021710.9715W	381041.76	385795.88	67.39	221.09
106R	532207.3932N	0021710.1958W	381056.11	385798.06	67.49	221.42
107	532207.6253N	0021715.6795W	380954.78	385805.64	67.02	219.87
108	532205.8690N	0021711.3086W	381035.35	385751.04	67.04	219.94
109	532206.6148N	0021717.3557W	380923.67	385774.54	66.07	218.83
110	532205.7046N	0021713.8513W	380988.33	385746.15	66.70	218.83
110L	532204.9777N	0021713.3615W	380997.30	385723.65	66.61	218.54

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111	532205.6028N	0021719.0275W	380892.65	385743.39	66.41	217.87
112	532204.0181N	0021716.6435W	380936.52	385694.24	66.29	217.50
112R	532204.0575N	0021715.8125	380951.88	385695.40	66.30	217.2
113	532203.0930N	0021720.8072	380872.75	385665.91	65.82	215.94
113L	532204.4550N	0021720.4685	380865.87	385708.03	66.18	217.11
113R	532203.2244N	0021721.6644	380843.61	385670.09	65.83	215.97
114	532202.8521N	0021717.4587	380921.30	385658.27	65.94	216.33
116	532202.3586N	0021719.4522	380884.39	385643.17	65.73	215.63
116L	532201.8383N	0021719.3115	380886.93	385627.08	65.76	215.75
203	532202.0644N	0021700.8104W	381228.920	385632.693	67.531	221.558
203L	532202.7725N	0021701.2350W	381221.158	385654.606	67.619	221.847
204	532200.2075N	0021657.9375W	381281.793	385575.099	67.478	221.385
205	532201.8984N	0021703.4130W	381180.795	385627.756	67.192	220.446
206	532159.7012N	0021658.7725W	381266.296	385559.515	67.288	220.761
206L	532158.5481N	0021658.5186W	381270.849	385523.862	67.268	220.696
207	532200.3509N	0021703.5276W	381178.486	385579.943	66.871	219.393
207R	532200.1551N	0021704.0806W	381168.240	385573.933	66.766	219.049
208	532158.2178N	0021701.3381W	381218.694	385513.861	67.065	220.030
209	532158.7108N	0021706.3685W	381125.773	385529.467	66.837	219.281
209L	532159.4194N	0021706.7654W				
210	532157.6875N	0021702.1381W	381203.841	385497.535	67.148	220.302
210L	532156.5258N	0021701.8694W	381208.664	385461.613	67.439	221.257
211	532158.5272N	0021709.0021W	381077.072	385523.989	66.535	218.291
212	532155.7514N	0021704.7874W	381154.633	385437.899	67.040	219.948
213	532156.9836N	0021709.0666W	381075.688	385476.293	66.500	218.176
213R	532156.8587N	0021709.7721W	381062.632	385472.484	66.342	217.657
214	532155.4174N	0021705.9123W	381133.800	385427.661	66.792	219.134
214L	532154.3893N	0021705.8709W	381134.438	385395.887	66.757	219.019
215	532156.3459N	0021707.1255W	381111.489	385456.442	66.729	218.927
233	532152.5628M	0021654.3888W				
301	532150.7082N	0021634.5922W	381712.160	385279.857	68.687	225.351
302	532151.1731N	0021635.0562W	381703.639	385294.256	68.568	224.961
302L	532151.1097N	0021636.0319W	381685.597	385292.369	68.639	225.194
303	532152.3654N	0021637.6337W	381656.138	385331.288	68.387	224.367
304	532153.2660N	0021638.5032W	381640.174	385359.179	68.432	224.514
304L	532153.2461N	0021639.7501W	381617.124	385358.655	68.300	224.081
306	532155.3620N	0021642.0324W	381575.192	385424.205	68.429	224.505
306L	532155.2696N	0021643.0436W	381556.490	385421.423	68.321	224.150

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307	532156.4164N	0021644.8604W	381523.046	385456.993	68.486	224.692
308	532157.4653N	0021645.5561W	381510.313	385489.456	68.419	224.472
308L	532157.3955N	0021646.6101W	381490.822	385487.376	68.292	224.055
231	532150.4355N	0021652.0399W	381389.612	385272.690	68.725	225.476
231L	532150.2126N	0021650.6988W	381414.375	385265.703	68.902	226.056
231R	532151.2762N	0021652.2821W	381385.237	385298.688	68.583	225.010
233	532152.5628N	0021654.3888W	381346.452	385338.601	68.192	223.727
901	532214.9889N	0021717.8407W	380915.755	386033.353	67.434	221.240
903	532213.9782N	0021719.5157W	380884.672	386002.245	67.258	220.663
905	532212.9672N	0021721.1909W	380853.584	385971.129	67.074	220.059
907	532211.9571N	0021722.8659W	380822.500	385940.040	66.895	219.472
909	532210.9451N	0021724.5412W	380791.411	385908.893	66.715	218.881
911	532209.9342N	0021726.2161W	380760.328	385877.777	66.521	218.245
913	532208.9226N	0021727.8919W	380729.228	385846.644	66.344	217.664
915	532207.7285N	0021729.6458W	380696.661	385809.874	66.124	216.942
917	532206.2526N	0021730.6486W	380677.940	385764.342	66.241	217.326
919	532204.9125N	0021731.4472W	380663.010	385722.990	66.544	218.320
925	532157.8770N	0021726.0458W	380761.959	385505.167	66.914	219.534
927	532156.8737N	0021724.3577W	380793.036	385474.036	66.909	219.518
929	532155.8734N	0021722.6681W	380824.141	385442.996	66.914	219.534

6.7 Geographical coordinates, and the top elevation of significant obstacles in the approach and take-off areas, in the circling area and in the surroundings of the aerodrome (in the form of charts);

For Geographical co-ordinates and Top Elevation of Significant Obstacles in the Approach, Take-off and Circling Aeras at the Aerodrome, refer to AIP EGCC AD 2.10.

6.8 Pavement surface type and bearing strength using the Aircraft Classification Rating — Pavement Classification Rating (ACR-PCR) method;

Please refer to Part C 4.4.7.

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6.9 Pre-flight altimeter check locations established and their elevation;

N/A to Manchester Airport.

6.10 Declared distances;

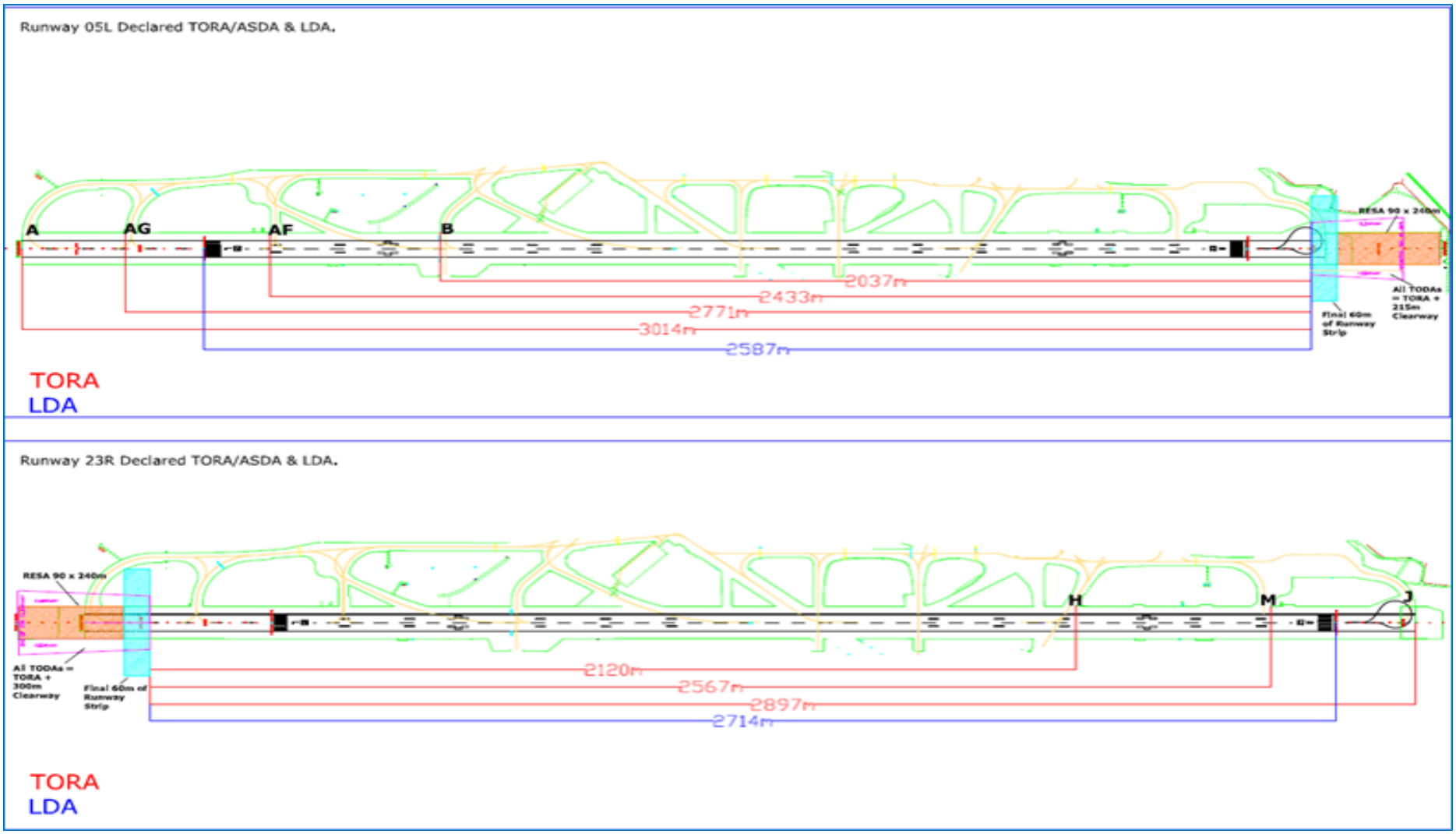
Runway and Runway Intersection Declared Distances are calculated in accordance with CAA CS-ADR-DSN.

Runway	TORA	TODA	ASDA	LDA	Remarks
05R	3047 M	3347 M	3047 M	2864 M	
23L	3200 M	3500 M	3200 M	2864 M	Using 150 M starter extension TORA of 3200 M and TODA of 3500 M available. Use Taxiway T for access.
23L	2202 M	2502 M	2202 M		Take-off from intersection at Taxiway Victor Delta.
23L	3121 M	3421 M	3121 M		Take-off from intersection at Taxiway Victor Alpha.
23L	2954 M	3254 M	2954 M		Take-off from intersection at Taxiway Victor Bravo.
23L	2848 M	3148 M	2848 M		Take-off from intersection at Taxiway Uniform.
23L	2504 M	2804 M	2504 M		Take-off from intersection at Taxiway Victor Charlie.
05L	3014 M	3229 M	3014 M	2587 M	
23R	2897 M	3197 M	2897 M	2714 M	
05L	2771 M	2987 M	2771 M		Take-off from intersection at Taxiway Alpha Golf.
05L	2433 M	2648 M	2433 M		Take-off from intersection at Taxiway Alpha Foxtrot.
05L	2037 M	2252 M	2037 M		Take-off from intersection at Taxiway Bravo.
23R	2567 M	2867 M	2567 M		Take-off from intersection at Taxiway Mike.
23R	2120 M	2420 M	2120 M		Take-off from intersection at Taxiway Hotel.

Any temporary reduction in available declared distances are assessed by the Airfield Operations Duty Manager and at least one other competent person and are promulgated via NOTAM and ATIS.

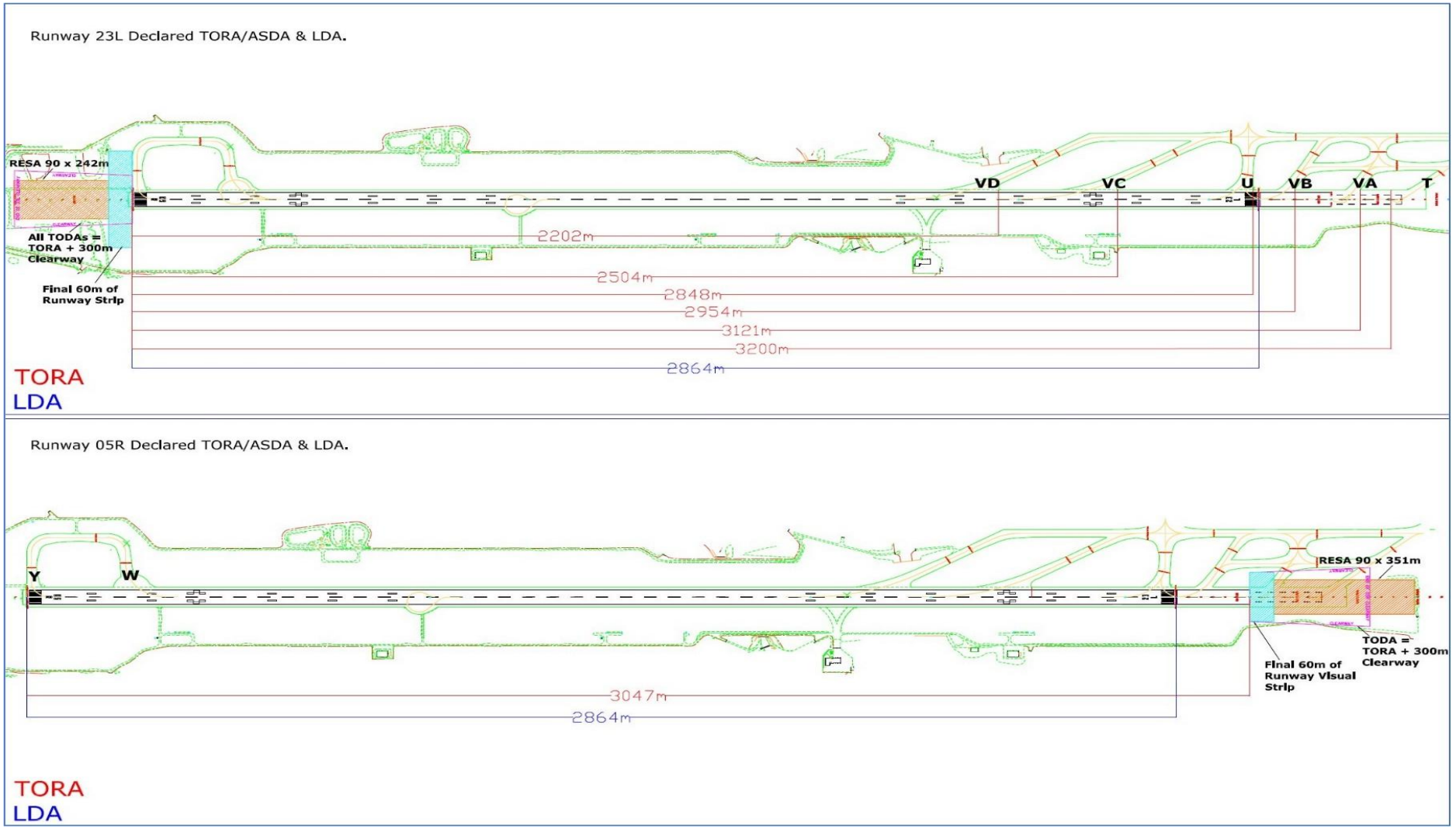
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6.10.1 Declared distances and RESA – Runway 05L/23R



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6.10.2 Declared distances and RESA – Runway 05R/23L



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6.11 Contact details (telephone/telex/fax numbers and e-mail address) of the aerodrome coordinator for the removal of disabled aircraft, and information on the capability to remove disabled aircraft, expressed in terms of the largest aircraft type;

The person responsible for the removal of disabled aircraft at Manchester Airport is the AODM. They can be contacted on 0161 489 3331. Procedures relating to this can be found in E EGCC-I-AOPS-035 – ASI 035 – Removal of Disabled Aircraft.

6.12 Rescue and firefighting level of protection; types and amounts of extinguishing agents normally available at the aerodrome;

MARFFS is resourced to provide RFFS Category 10 DRO in accordance with UK Regulation 139/2014. Fire cover frequently exceeds the minimum requirement, providing resilience for operational demands and allowing limited domestic responses without affecting aerodrome operations.

Aircraft movements will not be permitted without the required level of fire cover. In the event of a total loss of fire cover, all aircraft movements cease except emergency aircraft requiring immediate landing.

For incidents occurring within the terminal buildings or in landside locations, MARFFS will attend without impact to MARFFS CAT10 requirements. Once Greater Manchester Fire and Rescue Services (GMFRS) attend an incident in these locations, responsibility will be transferred at the earliest opportunity. Should an aircraft emergency occur simultaneously, resources are released in accordance with established procedures.

6.12.1 Compliance with Regulatory Requirements

Compliance is achieved by following the below documents;

- MARFFS Task Resources Analysis (TRA),

- MARFFS Standard Operational Guidance (SOGs),
- Manchester Airport Emergency Response Manual,
- MARFFS Training Policy and Maintenance of Competence Manual.

6.12.2 MARFFS Station Locations

	North Side Fire Station	South Side Fire Station
Location	Adjacent Taxiway Alpha	Adjacent 05R/23L
Direct Access to Runway	05L/23R	05R/23L
Staffed	24hrs a day / 7 days a week / 365 days a year	

6.12.3 MARFFS Personnel

A four watch system provides continuous cover through 12hr shifts (08:00-20:00 and 20:00-08:00). Airport Fire Control (Command Support) operates from the ATC tower and is staffed by an operational fire fighter.

	On Duty Requirements	Overall Available
Head of Fire & Medical Services		1
Station Managers	1	4
Watch Managers	2	8
Crew Managers	5	20
Fire Fighters	8	52
Fire Service Engineer		1
Total	16	86

Details of responsibilities and reporting structures are detailed within the MARFFS SOGs.

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6.12.4 Manchester Airport Fire Appliances

MARFFS have a fleet of Oshkosh Striker 6x6 appliances. All appliances have

- High Reach Extendable Turret appliances (HRET) equipped with both aspirating monitors.
- Dual media spray branches
- Aircraft spiking piercing nozzles (ASPNs)
- Colour cameras
- Infrared thermal imaging capability.
- Monitor throw of 80-90m,
- Discharge rate of 6000L/min.
- Dry powder discharge rate of 7kg/sec

	Crew	Water (L)	Foam (L)	Dry Powder
Fire 1 – Striker	2	12,000	1680	250
Fire 2 – Striker	2	12,000	1680	250
Fire 3 – Striker	2	12,000	1680	250
Fire 4 – Striker	2	12,000	1680	250
Fire 5 – Striker	Spare*	12,000	1680	250
Fire 6 – Striker	Spare*	12,000	1680	250
Fire 7 – Domestic Pump	4	1800	180	N/A
Fire 16 – Rapid Response Vehicle	2	N/A	N/A	N/A
Fire Chief – Command Vehicle	1	N/A	N/A	N/A
Total	16	72000	10080	1500
RFFS CAT10 Requirements		32300	3876	450
MARFFS Exceeding by		15700	2844	550

***Spare appliances provide resilience during maintenance or depletion.

All appliances carry 5KG CO2 and 9KG Dry powder hand-held portable extinguishers.

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6.12.5 Depletion of MARFFS

As detailed above, there are two spare appliances available to support operational resilience.

For the loss of personnel;

- Loss of 1 firefighter – RFFS Category 10 maintained through vehicle redeployment.
- Loss of 2 firefighters – Rapid response vehicle removed from service and GMFRS advised that domestic cover is unavailable.
- Loss of 3+ firefighters – Operations will revert to single runway operations (SRO) RFFS CAT10 operations.

During times of depletion, fire cover will not fall to less than two categories below that required for the largest aircraft expected and the duty station manager must provide notification of level of depletion, expected duration to;

- ATC
- AODM

Times of depletion should be kept to a minimum with all efforts given to restoring the MARFFS provision.

Where fire cover is unavailable:

- Take-off and landing of aircraft is not permitted
- Aircraft on final approach will be instructed to 'Go-Around'
- Aircraft may be held or diverted as necessary

The only exception to this is an aircraft declaring 'PAN' or 'MAYDAY', requiring immediate landing. The flight deck will be notified of the available fire category.

If the loss of fire cover is expected to be prolonged, outbound aircraft on the ground will be allocated stands and instructed to taxi to these stands by ATC, awaiting further developments.

6.12.6 Alerting Procedures

The primary alerting method for MARFFS is an emergency direct telephone link from ATC, supported by a crash alarm.

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Detailed procedures are contained within EGCC-M-AOPS-003 – MAN Emergency Response Manual, and MARFFS SOGs.

Procedures for alerting personnel during operational duties, training and other activities are contained within MARFFS SOGs.

6.12.7 Competence of MARFFS Personnel

Training is supported by:

- Service Delivery and Compliance Manager
- On-site training rig
- Competency programme aligned with CAP699
- MARFFS Maintenance of Competency Scheme (MOC)

MARFFS employ an external training provider to provide medical training courses, content and complete the training of instructors. Training is then delivered to all operational personnel.

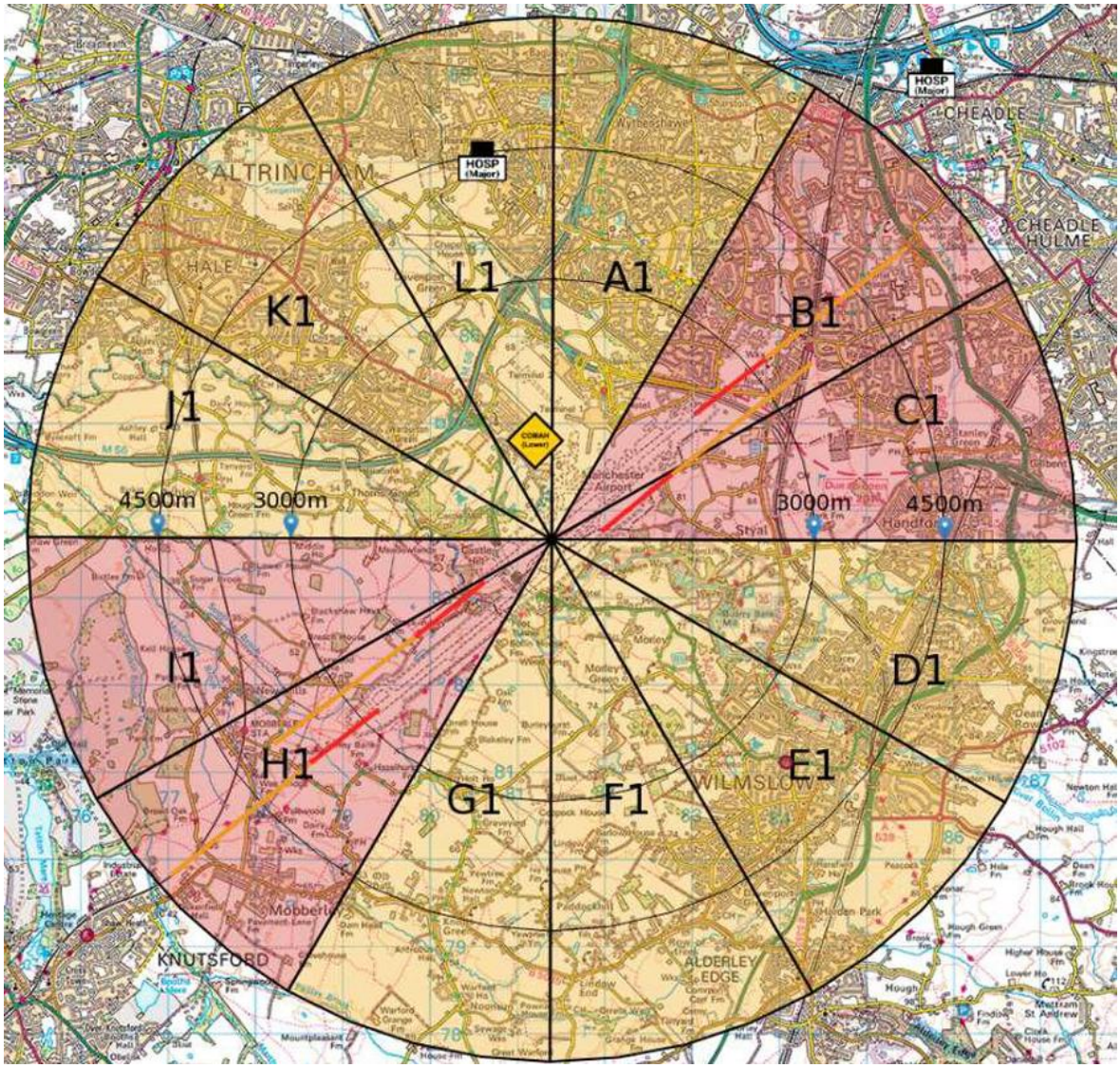
6.12.8 1000M undershoot & overshoot areas.

Four such areas exist at Manchester Airport.

The diagram below shows an area in general sector mapping, used to identify accident and incident locations. The outer ring is 6000m from the centre of the airfield with the inner rings 3000m and 4500m respectively to give perspective of distance to landmarks. The Red Lines extending from the thresholds represent 1000m and the Amber Lines being 3000m.

Further procedures for accessing and operating in these areas are contained in the MARFFS Guidance Documents (SOG's).

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6.12.9 Difficult Environs

Drainage lagoons and the River Bollin, adjacent to 05R/23L have been identified as areas that are difficult to access and may require the use of line restraint equipment to support an initial rescue.

6.12.10 Additional Resources

In addition to the above fire appliances, MARFFS are supported by GMFRS with an aerial ladder appliance for RFFS CAT 10 operations. This is contained within the LA Responding Service Section 16 agreement.

A Memorandum of Understanding exists with GMFRS enabling MARFFS to respond under Blue Light conditions, in accordance with the MOU, Section 15.

Details of water supplies available to MARFFS are detailed in the MARFFS SOG's.

6.12.11 Low Visibility Procedures

MARFFS maintain full capabilities during low visibility operations, applicable procedures are contained within MARFFS SOGs,

6.12.12 Medical Equipment

MARFFS carry medical equipment as required to supplement that provided by the medical services contractor. Supplies are kept on the medical trailer and are detailed in the MARFFS SOGs.

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6.13 Exemptions or derogations from equivalent level of safety, special conditions, and limitations.

6.13.1 Items recorded as special conditions on the Aerodrome Certificate

Date	Relevant Certification Specification (CS)	Description Of SC	Reference to supporting documentation
25/02/2015	A.005	Aerodrome Reference Code number (code element one) is determined by the greater value of TODA or ASDA not Aeroplane reference field length.	This is standard practice in the UK, allowed by UK CAA
25/02/2015	CS ADR-DSN B.045	Runway 23L TORA includes a Starter Extension 150m long and 30m wide.	The TODA and TORA can be extended using a Runway Starter Extension, allowed by UK CAA
25/02/2015	CS ADR-DSN.B.060 (c) (2)	Longitudinal slope slightly out of tolerance at SW end of 05L-23R.	Risk Assessment SC-02
25/02/2015	CS ADR-DSN.B.065 (c) (1)	Radius of slope transition slightly out of tolerance in places on 05L-23R.	Risk Assessment SC-02
25/02/2015	CS ADR-DSN.B.070 (b) (1)	Sight distance slightly out of tolerance.	Risk Assessment SC-02
25/02/2015	CS ADR-DSN.B.075 (a) (1)	Distance between slope changes slightly out of tolerance on 05L-23R.	Risk Assessment SC-02
25/02/2015	CS ADR-DSN.D.260	The separation distance between the centreline of Runway 05L-23R and the centreline of Taxiway Juliet reduces to 171.5m between J3 and J4.	Risk Assessment SC-03
25/02/2015	CS ADR-DSN D.265 (b) (1)	The longitudinal slopes on Taxiways P & F exceed 1.5% where they intersect with Runway 05L-23R. This is due to local topography.	Risk Assessment RO-05A
25/02/2015	CS ADR-DSN.L.600	Road-holding position marking is Pattern A	Risk Assessment RO-05A
25/02/2015	CS ADR-DSN.M.770	EGCC uses amber lamps for consistency with RHPs.	Risk Assessment RO-05A
06/06/2025	CS ADR-DSN.B.095(f)	Nose wheel steering angle will exceed 45 degrees when used by larger aircraft types	Risk Assessment SC-11
06/06/2025	CS ADR-DSN.L.565(5)(b)	The marked guidance line will result in the nose gear steering angle exceeding 45 degrees for certain large aircraft types.	Risk Assessment SC-11

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6.13.2 Special Condition requests in progress

Date	Relevant Certification Specification (CS)	Description of Special Condition	Reference to supporting documentation
25/02/15	CS ADR-DSN.D.250	In certain locations along the taxiways the main wheel to pavement edge clearance may be less than that specified at CS ADR-DSN.D.240 (a)	AW-02 – Works in Progress (WIP) SC-14 Reduction in wingtip obstacle clearance. Reviewed 10/06/25
25/02/15	CS ADR-DSN.D.320	Taxiway centreline to object clearances: Airside roadways are located entirely or partially within the strips of certain Apron Stand Taxi Lanes A380 Uses some taxiways with slightly reduced centreline to object clearances.	SC-14 Reduction in wingtip obstacle clearance. Reviewed 10/06/25 Minor non-compliance (-2m against revised standard)

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