SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16R Takeoff)

(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.
NB: The published height relating to railways include a 5.3m height for transient obstacles.
NB: Obstacle database used for reduction: Obst 220323.xlsm

Sydney Kingsford-Smith Airport Runway 16R Take Off

Mid-point of origin (MGA94) Easting	Northing	Runway Bearing	Height at Chainage 00 (m)	(ft)	Runway Length	Chainage at Origin	Height at Origin (m)	(ft)
		(Deg Min Sec)			(metres)	(metres)		
331925.694	6240225.940	166° 47' 03"	2.180	(7.152)	3962.5	4052.5	4.270	(14.009)

EXPLANATION OF SPECIFIC TERMS

Chart No. Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.
Note: 1. These numbers are regenerated with each survey and may vary from one year to the next.
2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description General description of the respective obstacle.

2021 RWY 16R Type A

All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
			MGA94		metres	(feet)	metres	metres		metres	metres	%			
11	14	1267	331883.2	6239999.1	9.2	30.3	6.8	2.4	BLDG	4264	93.2 West	2.35%	Aerial	Mar 22	Y
8	11	1511	331858.0	6240035.3	7.1	23.4	6.3	0.8	ANTEN	4223	109.5 West	1.68%	Noise Mon. Aerial	Mar 22	Y
10	13	1513	331872.4	6240001.6	8.9	29.3	6.7	2.2	ANTEN	4259	103.2 West	2.26%	Camera on roof	Mar 22	Y
5	7	1515	331949.6	6240123.7	6.0	19.6	5.5	0.5	ANTEN	4158	0.1 West	1.63%	Antenna	Mar 22	Y
		1531	331873.3	6239999.6	8.7	28.6	6.8	1.9	ANTEN	4261	102.8 West	2.13%	Lightning Conductor on Roof	Mar 22	Y
		1533	331867.6	6240002.5	8.5	27.9	6.7	1.8	SPIRE	4257	107.7 West	2.07%	Sewer Vent	Mar 22	Y
		1535	331881.5	6240001.1	8.7	28.4	6.8	1.9	ANTEN	4261	94.5 West	2.10%	Aerial - Wall Mounted	Mar 22	Y
		1539	331871.9	6240007.9	7.9	26.0	6.7	1.3	BLDG	4252	102.3 West	1.83%	Apex of G.I. Roof	Mar 22	Y
		2216	331977.7	6240004.1	8.4	27.6	7.0	1.4	SPIRE	4280	0.0 West	1.82%	Far field monitor mast	Mar 22	Y
		2218	331921.7	6239991.0	8.2	26.8	7.0	1.2	SPIRE	4280	57.6 West	1.71%	Far field monitor mast	Mar 22	Y
9	12	2426	331862.2	6240011.5	8.8	28.8	6.6	2.2	SPIRE	4247	110.9 West	2.32%	Exhaust atop LLER Building	Mar 22	Y
	1	2730	331849.9	6240208.1	4.4	14.4	4.3	0.1	SPIRE	4053	77.9 West	167.28%	ILS Protected Area Bollard	Nov 21	Y
1	2	2738	331970.9	6240235.9	4.5	14.8	4.3	0.2	SPIRE	4053	46.3 East	35.32%	ILS Protected Area Bollard	Nov 21	Y
		2750	331920.4	6240195.8	5.0	16.6	4.6	0.4	SPIRE	4081	12.0 West	2.76%	34L HIAL	Nov 21	Y
		2752	331932.1	6240198.5	5.1	16.6	4.6	0.5	SPIRE	4081	0.1 West	2.86%	34L HIAL	Nov 21	Y
2	3	2754	331943.7	6240201.3	5.1	16.7	4.6	0.5	SPIRE	4081	11.9 East	2.89%	34L HIAL	Mar 22	Y
		2756	331927.1	6240167.1	5.4	17.6	5.0	0.4	SPIRE	4110	12.1 West	1.91%	34L HIAL	Mar 22	Y
3	4	2758	331938.8	6240169.9	5.4	17.7	5.0	0.4	SPIRE	4110	0.1 West	1.96%	34L HIAL	Mar 22	Y
		2760	331950.5	6240172.6	5.4	17.6	5.0	0.4	SPIRE	4110	12.0 East	1.92%	34L HIAL	Mar 22	Y
	5	2762	331933.9	6240138.4	5.8	18.9	5.3	0.4	SPIRE	4140	12.0 West	1.71%	34L HIAL	Nov 21	Y
4	6	2764	331945.5	6240141.2	5.8	19.0	5.3	0.5	SPIRE	4140	0.1 West	1.73%	34L HIAL	Mar 22	Y
		2766	331957.3	6240143.9	5.8	18.9	5.3	0.4	SPIRE	4140	12.0 East	1.71%	34L HIAL	Nov 21	Y
		2768	331940.6	6240109.8	6.1	19.9	5.7	0.4	SPIRE	4169	12.1 West	1.54%	34L HIAL	Nov 21	Y
		2770	331952.3	6240112.5	6.1	19.9	5.7	0.4	SPIRE	4169	0.1 West	1.54%	34L HIAL	Nov 21	Y
6	8	2772	331963.9	6240115.3	6.1	19.9	5.7	0.4	SPIRE	4169	11.9 East	1.54%	34L HIAL	Mar 22	Y
		2774	331947.3	6240081.1	6.4	21.0	6.0	0.4	SPIRE	4198	12.1 West	1.46%	34L HIAL	Nov 21	Y
	9	2776	331959.0	6240083.9	6.4	21.1	6.0	0.4	SPIRE	4198	0.1 West	1.48%	34L HIAL	Nov 21	Y
7	10	2778	331970.7	6240086.6	6.4	21.1	6.0	0.4	SPIRE	4198	12.0 East	1.49%	34L HIAL	Mar 22	Y
		2780	331954.0	6240052.5	6.8	22.3	6.4	0.4	SPIRE	4228	12.1 West	1.44%	34L HIAL	Nov 21	Y
		2782	331965.7	6240055.2	6.8	22.4	6.4	0.4	SPIRE	4228	0.1 West	1.45%	34L HIAL	Nov 21	Y
		2784	331977.4	6240057.9	6.8	22.3	6.4	0.4	SPIRE	4228	11.9 East	1.45%	34L HIAL	Nov 21	Y
		2786	331957.9	6240022.9	7.2	23.5	6.7	0.4	SPIRE	4257	15.0 West	1.41%	34L HIAL	Nov 21	Y
		2788	331972.3	6240026.8	7.4	24.4	6.7	0.7	SPIRE	4257	0.1 West	1.55%	34L HIAL	Nov 21	Y
		2790	331987.1	6240029.8	7.2	23.5	6.7	0.4	SPIRE	4257	14.9 East	1.41%	34L HIAL	Nov 21	Y
		2792	331979.2	6239997.5	7.9	25.8	7.1	0.8	SPIRE	4287	0.2 West	1.53%	34L HIAL	Nov 21	Y
		2794	331986.0	6239968.3	8.4	27.5	7.4	0.9	SPIRE	4317	0.2 West	1.55%	34L HIAL	Nov 21	Y
		2796	331993.1	6239938.7	8.5	28.0	7.8	0.7	SPIRE	4348	0.0 West	1.45%	34L HIAL	Nov 21	Y
		2798	331999.8	6239909.8	8.5	28.0	8.2	0.4	SPIRE	4377	0.1 West	1.32%	34L HIAL	Nov 21	Y
		2808	331991.6	6239943.7	7.9	25.9	7.7	0.1	LINES	4342	0.3 West	1.25%	Guardrail	Nov 21	Y
		2810	331992.3	6239943.9	7.9	25.8	7.7	0.1	LINES	4342	0.3 East	1.24%	Guardrail	Nov 21	Y
		2812	331881.1	6239994.4	8.5	28.0	6.9	1.7	SPIRE	4268	96.4 West	1.98%	RADAR Video Surveillance Camera (lightning rod)	Mar 22	Y
		4836	332046.7	6239941.9	8.3	27.1	7.9	0.3	TREE	4357	52.9 East	1.31%	Shrub atop rockwall at southern end of RWY 16R/34L	Nov 21	Y

* Obstacle penetrates by < 0.05m.

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AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16R Takeoff)

(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.
NB: The published height relating to railways include a 5.3m height for transient obstacles.
NB: Obstacle database used for reduction: Obst 220323.xlsm

Sydney Kingsford-Smith Airport Runway 16R Take Off

Mid-point of origin Easting (MGA94)	Northing (MGA94)	Runway Bearing (Deg Min Sec)	Height at Chainage 00 (m)	(ft)	Runway Length (metres)	Chainage at Origin (metres)	Height at Origin (m)	(ft)
331925.694	6240225.940	166° 47' 03"	2.180	(7.152)	3962.5	4052.5	4.270	(14.009)

EXPLANATION OF SPECIFIC TERMS

Chart No. Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.
Note: 1. These numbers are regenerated with each survey and may vary from one year to the next.
2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description General description of the respective obstacle.

2021 RWY 16R Type A

Significant (Charted) Obstacles

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
			MGA94		metres	(feet)	metres	metres		metres	metres	%			
1	2	2738	331970.9	6240235.9	4.5	14.8	4.3	0.2	SPIRE	4053	93.2 West	35.32%	ILS Protected Area Bollard	Nov 21	Y
2	3	2754	331943.7	6240201.3	5.1	16.7	4.6	0.5	SPIRE	4081	109.5 West	2.89%	34L HIAL	Mar 22	Y
3	4	2758	331938.8	6240169.9	5.4	17.7	5.0	0.4	SPIRE	4110	103.2 West	1.96%	34L HIAL	Mar 22	Y
4	6	2764	331945.5	6240141.2	5.8	19.0	5.3	0.5	SPIRE	4140	0.1 West	1.73%	34L HIAL	Mar 22	Y
5	7	1515	331949.6	6240123.7	6.0	19.6	5.5	0.5	ANTEN	4158	102.8 West	1.63%	Antenna	Mar 22	Y
6	8	2772	331963.9	6240115.3	6.1	19.9	5.7	0.4	SPIRE	4169	107.7 West	1.54%	34L HIAL	Mar 22	Y
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8	11	1511	331858.0	6240035.3	7.1	23.4	6.3	0.8	ANTEN	4223	102.3 West	1.68%	Noise Mon. Aerial	Mar 22	Y
9	12	2426	331862.2	6240011.5	8.8	28.8	6.6	2.2	SPIRE	4247	0.0 West	2.32%	Exhaust atop LLER Building	Mar 22	Y
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11	14	1267	331883.2	6239999.1	9.2	30.3	6.8	2.4	BLDG	4264	110.9 West	2.35%	Aerial	Mar 22	Y

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16R Takeoff)

(NEW AND DELETED OBSTACLES)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.
NB: The published height relating to railways include a 5.3m height for transient obstacles.
NB: Obstacle database used for reduction: Obst 220323.xlsm

Sydney Kingsford-Smith Airport Runway 16R Take Off

Mid-point of origin Easting (MGA94)	Northing (MGA94)	Runway Bearing (Deg Min Sec)	Height at Chainage 00 (m)	(ft)	Runway Length (metres)	Chainage at Origin (metres)	Height at Origin (m)	(ft)
331925.694	6240225.940	166° 47' 03"	2.180	(7.152)	3962.5	4052.5	4.270	(14.009)

EXPLANATION OF SPECIFIC TERMS

Chart No. Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.
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2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description General description of the respective obstacle.

New Obstacles
(Obstacles newly reflected on Type A Charts - 2021 Survey)

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
			MGA94		metres	(feet)	metres	metres		metres	metres	%	

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.
It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).
* Obstacle penetrates <0.05m.

Deleted Obstacles
(Obstacles removed from Type A Charts - 2020 Survey)

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
			MGA94		metres	(feet)	metres	metres		metres	metres	%	
	1	2730	331849.9	6240208.1	4.4	14.4	4.3	0.1	SPIRE	4053	77.9 West	167.27%	ILS Protected Area Bollard
	5	2762	331933.9	6240138.4	5.8	18.9	5.3	0.4	SPIRE	4140	12 West	1.71%	34L HIAL
	9	2776	331959.0	6240083.9	6.4	21.1	6.0	0.4	SPIRE	4198	0.1 West	1.48%	34L HIAL

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.
It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).
* Obstacle penetrates <0.05m.