

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

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin	
Easting	Northing					(m)	(ft)
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m)	(ft)
333163.594	6239490.595	166° 47' 03"	4.969 (16.302)	2438.0	2528.0	3.999	(13.12)

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. <u>Note:</u> 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.

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
					metres	(feet)									
					MGA94										
6	9	1001	333177.3	6239432.3	5.8	19.1	4.7	1.1	ANTEN	2588	0.0 West	3.06%	Antenna	Mar 22	Y
		1974	333176.7	6239320.0	6.6	21.7	6.0	0.6	SPIRE	2697	26.2 West	1.54%	Western Obstacle light atop RWY 16L Localiser (lit)	Nov 21	Y
		2050	333227.8	6239332.0	6.7	21.9	6.0	0.7	SPIRE	2697	26.2 East	1.59%	Eastern Obstacle light atop RWY 16L Localiser (lit)	Nov 21	Y
10	14	2204	333268.5	6239361.6	7.6	25.0	5.8	1.8	ANTEN	2678	72.7 East	2.42%	Aerial	Mar 22	Y
		2706	333208.1	6239500.3	4.3	14.2	4.0	0.3	SPIRE	2529	45.6 East	44.09%	ILS Protected Area Bollard	Nov 21	Y
		2708	333214.4	6239473.6	4.4	14.4	4.3	0.0	SPIRE	2556	45.6 East	1.33%	ILS Protected Area Bollard	Nov 21	Y
3	5	2714	333125.2	6239457.6	4.5	14.7	4.3	0.2	SPIRE	2551	44.9 West	2.04%	ILS Protected Area Bollard	Mar 22	Y
1	1	2716	333120.1	6239480.2	4.4	14.4	4.0	0.4	SPIRE	2528	44.7 West	208.48%	ILS Protected Area Bollard	Mar 22	Y
		2718	333091.0	6239472.8	4.2	13.8	4.0	0.2	SPIRE	2529	74.7 West	28.75%	ILS Protected Area Bollard	Nov 21	Y
2	2	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2545	12.0 East	2.43%	34R HIAL	Mar 22	Y
	4	4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2545	0.0 East	2.43%	34R HIAL	Nov 21	Y
	3	4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2545	12.0 West	2.43%	34R HIAL	Nov 21	Y
4	6	4346	333185.7	6239449.2	4.9	16.0	4.5	0.3	SPIRE	2573	12.0 East	1.93%	34R HIAL	Mar 22	Y
5	7	4348	333174.0	6239446.4	4.9	16.0	4.5	0.3	SPIRE	2573	0.0 West	1.94%	34R HIAL	Mar 22	Y
	8	4350	333162.3	6239443.6	4.9	16.0	4.5	0.3	SPIRE	2573	12.0 West	1.93%	34R HIAL	Mar 22	Y
		4352	333192.3	6239421.0	5.4	17.6	4.9	0.5	SPIRE	2602	12.0 East	1.83%	34R HIAL	Mar 22	Y
		4354	333180.6	6239418.2	5.4	17.6	4.9	0.5	SPIRE	2602	0.0 East	1.83%	34R HIAL	Mar 22	Y
		4356	333168.9	6239415.5	5.4	17.6	4.9	0.5	SPIRE	2602	12.0 West	1.83%	34R HIAL	Mar 22	Y
8	12	4358	333198.8	6239393.0	5.8	19.1	5.2	0.6	SPIRE	2631	12.0 East	1.78%	34R HIAL	Mar 22	Y
	10	4360	333187.2	6239390.3	5.8	19.1	5.2	0.6	SPIRE	2631	0.0 East	1.78%	34R HIAL	Nov 21	Y
7	11	4362	333175.5	6239387.5	5.8	19.1	5.2	0.6	SPIRE	2631	12.0 West	1.78%	34R HIAL	Mar 22	Y
9	13	4364	333205.4	6239364.9	6.3	20.8	5.6	0.7	SPIRE	2660	12.0 East	1.77%	34R HIAL	Mar 22	Y
		4366	333193.8	6239362.2	6.3	20.8	5.6	0.7	SPIRE	2660	0.0 East	1.77%	34R HIAL	Mar 22	Y
		4368	333182.1	6239359.4	6.3	20.8	5.6	0.7	SPIRE	2660	12.0 West	1.77%	34R HIAL	Mar 22	Y
		4370	333215.0	6239337.3	6.8	22.4	5.9	0.9	SPIRE	2689	15.0 East	1.75%	34R HIAL	Mar 22	Y
		4372	333200.3	6239334.3	7.1	23.2	5.9	1.1	SPIRE	2689	0.0 West	1.91%	34R HIAL	Mar 22	Y
		4374	333185.8	6239330.5	6.8	22.3	5.9	0.9	SPIRE	2689	15.0 West	1.75%	34R HIAL	Mar 22	Y
		4376	333205.2	6239313.5	7.4	24.1	6.2	1.2	SPIRE	2710	0.0 West	1.84%	RWY 34R Localiser Far Field Centreline Monitor Antenna	Mar 22	Y
		4378	333207.0	6239305.8	7.6	24.8	6.3	1.3	SPIRE	2718	0.0 East	1.88%	Post	Mar 22	Y
		4380	333147.0	6239299.8	6.9	22.5	6.2	0.7	SPIRE	2710	59.8 West	1.57%	RWY 34R Localiser Far Field Displacement Sensitivity Monitor Antenna	Mar 22	Y
		4738	333213.5	6239277.9	7.6	24.8	6.6	0.9	SPIRE	2746	0.1 West	1.63%	34R HIAL	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 16L 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 16L Take Off				
Mid-point Easting	of origin Northing	Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
333163.594	6239490.595	166° 47' 03"	4.969 (16.302)	2438.0	2528.0	3.999 (13.12)

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. <u>Note:</u> 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 16L 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	metres	metres				metres	%
					metres	(feet)	metres	metres									
1	1	2716	333120.1	6239480.2	4.4	14.4	4.0	0.4	SPIRE	2528	0.0 West	208.48%	ILS Protected Area Bollard	Mar 22	Y		
2	2	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2545	26.2 West	2.43%	34R HIAL	Mar 22	Y		
3	5	2714	333125.2	6239457.6	4.5	14.7	4.3	0.2	SPIRE	2551	26.2 East	2.04%	ILS Protected Area Bollard	Mar 22	Y		
4	6	4346	333185.7	6239449.2	4.9	16.0	4.5	0.3	SPIRE	2573	72.7 East	1.93%	34R HIAL	Mar 22	Y		
5	7	4348	333174.0	6239446.4	4.9	16.0	4.5	0.3	SPIRE	2573	45.6 East	1.94%	34R HIAL	Mar 22	Y		
6	9	1001	333177.3	6239432.3	5.8	19.1	4.7	1.1	ANTEN	2588	45.6 East	3.06%	Antenna	Mar 22	Y		
7	11	4362	333175.5	6239387.5	5.8	19.1	5.2	0.6	SPIRE	2631	44.9 West	1.78%	34R HIAL	Mar 22	Y		
8	12	4358	333198.8	6239393.0	5.8	19.1	5.2	0.6	SPIRE	2631	44.7 West	1.78%	34R HIAL	Mar 22	Y		
9	13	4364	333205.4	6239364.9	6.3	20.8	5.6	0.7	SPIRE	2660	74.7 West	1.77%	34R HIAL	Mar 22	Y		
10	14	2204	333268.5	6239361.6	7.6	25.0	5.8	1.8	ANTEN	2678	12.0 East	2.42%	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 16L 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.

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NB: Obstacle database used for reduction: Obst 220323.xlsm

Sydney Kingsford-Smith Airport Runway 16L Take Off						
Mid-point Easting	of origin Northing	Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
333163.594	6239490.595	166° 47' 03"	4.969 (16.302)	2438.0	2528.0	3.999 (13.12)

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.

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
					metres	(feet)							
			MGA94										

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
					metres	(feet)							
			MGA94										
	4	4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2545	0 West	2.43%	HIAL
	3	4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2545	12 West	2.43%	HIAL
	8	4350	333162.3	6239443.6	4.9	16.0	4.5	0.3	SPIRE	2573	12 West	1.93%	HIAL
	10	4360	333187.2	6239390.3	5.8	19.1	5.2	0.6	SPIRE	2631	0 West	1.78%	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.