

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA  
AERONAUTICAL INFORMATION PUBLICATION  
AERODROME OBSTACLE CHART (DECEMBER 2019)  
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)  
( 16L - 15° Diverging TAKE OFF )**

**(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 200219.red

**Sydney Kingsford-Smith Airport 16L - 15° Diverging Take Off**

Mid-point of origin	Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u> <u>Northing</u>		(m) (ft)	(metres)	(metres)	(m) (ft)
(MGA94)	(Deg Min Sec)				
333163.594 6239490.595	166° 47' 03"	4.916 (16.1)	2438.0	2528.0	3.988 (13.1)

**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.

Chart No. (2019)	Chart No. (2018)	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)										metres	metres
10	10	1001	333177.3	6239432.3	5.8	19.0	4.7	1.1	ANTEN	2585.8	15.5 West	3.17	Antenna	Nov 19	Y		
		1974	333176.7	6239320.0	6.6	21.7	5.9	0.7	SPIRE	2684.5	69.1 West	1.66	Western Obstacle light atop RWY 16L Localiser (lit)	Nov 19	Y		
		2050	333227.8	6239332.0	6.7	22.0	6.0	0.6	SPIRE	2698.1	18.4 West	1.58	Eastern Obstacle light atop RWY 16L Localiser (lit)	Nov 19	Y		
17	17	2204	333268.5	6239361.6	7.6	24.9	6.0	1.7	ANTEN	2691.3	31.5 East	2.21	Aerial	Nov 19	Y		
1	1	2702	333231.1	6239526.3	4.1	13.5	4.0	0.1	SPIRE	2528.5	76.4 East	18.49	ILS Protected Area Bollard	Nov 19	Y		
2	2	2706	333208.1	6239500.3	4.3	14.1	4.1	0.2	SPIRE	2540.5	43.8 East	2.64	ILS Protected Area Bollard	Nov 19	Y		
		2712	333131.8	6239431.1	4.5	14.8	4.4	0.0	SPIRE	2565.4	56.2 West	1.30	ILS Protected Area Bollard	Nov 19	Y		
6	6	2714	333125.2	6239457.6	4.5	14.8	4.1	0.3	SPIRE	2538.9	49.4 West	4.37	ILS Protected Area Bollard	Nov 19	Y		
3	3	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2547.1	7.3 East	2.10	HIAL	Nov 19	Y		
5	5	4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2544.0	4.3 West	2.51	HIAL	Nov 19	Y		
4	4	4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2540.9	15.9 West	3.12	HIAL	Nov 19	Y		
7	7	4346	333185.7	6239449.2	4.9	16.1	4.6	0.3	SPIRE	2575.0	0.1 West	1.87	HIAL	Nov 19	Y		
8	8	4348	333174.0	6239446.4	4.9	16.1	4.5	0.4	SPIRE	2571.9	11.8 West	2.00	HIAL	Nov 19	Y		
9	9	4350	333162.3	6239443.6	4.9	16.1	4.5	0.4	SPIRE	2568.8	23.3 West	2.16	HIAL	Nov 19	Y		
		4352	333192.3	6239421.0	5.4	17.7	4.9	0.5	SPIRE	2602.9	7.6 West	1.81	HIAL	Nov 19	Y		
		4354	333180.6	6239418.2	5.4	17.7	4.9	0.5	SPIRE	2599.8	19.2 West	1.89	HIAL	Nov 19	Y		
		4356	333168.9	6239415.5	5.4	17.7	4.8	0.5	SPIRE	2596.7	30.8 West	1.98	HIAL	Nov 19	Y		
12	12	4358	333198.8	6239393.0	5.8	19.0	5.2	0.6	SPIRE	2630.7	15.1 West	1.79	HIAL	Nov 19	Y		
11	11	4360	333187.2	6239390.3	5.8	19.0	5.2	0.6	SPIRE	2627.5	26.7 West	1.84	HIAL	Nov 19	Y		
13	13	4362	333175.5	6239387.5	5.8	19.0	5.2	0.7	SPIRE	2624.4	38.3 West	1.90	HIAL	Nov 19	Y		
15	15	4364	333205.4	6239364.9	6.3	20.7	5.6	0.8	SPIRE	2658.5	22.5 West	1.79	HIAL	Nov 19	Y		
14	14	4366	333193.8	6239362.2	6.3	20.7	5.5	0.8	SPIRE	2655.4	34.1 West	1.83	HIAL	Nov 19	Y		
16	16	4368	333182.1	6239359.4	6.3	20.7	5.5	0.8	SPIRE	2652.3	45.7 West	1.87	HIAL	Nov 19	Y		
		4370	333215.0	6239337.3	6.8	22.3	5.9	0.9	SPIRE	2687.4	27.2 West	1.77	HIAL	Nov 19	Y		
		4372	333200.3	6239334.3	7.1	23.3	5.9	1.2	SPIRE	2683.1	41.6 West	1.98	HIAL	Nov 19	Y		
		4374	333185.8	6239330.5	6.8	22.3	5.8	1.0	SPIRE	2679.6	56.1 West	1.85	HIAL	Nov 19	Y		
		4376	333205.2	6239313.5	7.3	24.0	6.1	1.2	SPIRE	2703.7	47.1 West	1.91	RWY 34R Localiser Far Field Centreline Monitor Antenna	Nov 19	Y		
18	18	4378	333207.0	6239305.8	7.6	24.9	6.2	1.4	SPIRE	2711.4	49.1 West	1.95	Post	Nov 19	Y		
		4380	333147.0	6239299.8	6.9	22.6	5.9	0.9	SPIRE	2688.3	104.8 West	1.79	RWY 34R Localiser Far Field Displacement Sensitivity Monitor Antenna	Nov 19	Y		
19	19	4738	333213.5	6239277.9	7.6	24.9	6.5	1.0	SPIRE	2739.0	56.6 West	1.68	HIAL	Nov 19	Y		

\* Obstacle penetrates <0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA  
AERONAUTICAL INFORMATION PUBLICATION  
AERODROME OBSTACLE CHART (DECEMBER 2019)  
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)  
( 16L - 15° Diverging TAKE OFF )

**(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 200219.red

Sydney Kingsford-Smith Airport 16L - 15° Diverging 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"	4.916 (16.1)	2438.0	2528.0	3.988 (13.1)

**EXPLANATION OF SPECIFIC TERMS**

<b>Chart No.</b>	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting <u>only</u> 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.
<b>Reference Number</b>	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
<b>Type of Obstacle</b>	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
<b>Description</b>	General description of the respective obstacle.

Chart No. (2019)	Chart No. (2018)	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	(feet)	metres	metres	(%)								
1	1	2702	333231.1	6239526.3	4.1	13.5	4.0	0.1	SPIRE	2528.5	76.4 East	18.49	ILS Protected Area Bollard	Nov 19	Y
2	2	2706	333208.1	6239500.3	4.3	14.1	4.1	0.2	SPIRE	2540.5	43.8 East	2.64	ILS Protected Area Bollard	Nov 19	Y
3	3	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2547.1	7.3 East	2.10	HIAL	Nov 19	Y
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12	12	4358	333198.8	6239393.0	5.8	19.0	5.2	0.6	SPIRE	2630.7	15.1 West	1.79	HIAL	Nov 19	Y
13	13	4362	333175.5	6239387.5	5.8	19.0	5.2	0.7	SPIRE	2624.4	38.3 West	1.90	HIAL	Nov 19	Y
14	14	4366	333193.8	6239362.2	6.3	20.7	5.5	0.8	SPIRE	2655.4	34.1 West	1.83	HIAL	Nov 19	Y
15	15	4364	333205.4	6239364.9	6.3	20.7	5.6	0.8	SPIRE	2658.5	22.5 West	1.79	HIAL	Nov 19	Y
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SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA  
AERONAUTICAL INFORMATION PUBLICATION  
AERODROME OBSTACLE CHART (DECEMBER 2019)  
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)  
( 16L - 15° Diverging TAKE OFF )

**(NEW & 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)

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NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 2000219.red

Sydney Kingsford-Smith Airport							16L - 15° Diverging Take Off		
Mid-point of origin		Runway Bearing	Height at		Runway Length	Chainage at Origin	Height at		
<u>Easting</u>	<u>Northing</u>		Chainage 00				Origin		
(MGA94)			(Deg Min Sec)	(m)			(ft)	(metres)	(m)
333163.594	6239490.595	166° 47' 03"	4.916	(16.1)	2438.0	2528.0	3.988	(13.1)	

**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 - 2019 Survey)													
Chart No. (2019)	Chart No. (2018)	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)	metres	metres		metres	metres	(%)	
			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 - 2018 Survey)													
Chart No. (2019)	Chart No. (2018)	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)	metres	metres		metres	metres	(%)	

**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.