

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA**  
**AERONAUTICAL INFORMATION PUBLICATION**  
**AERODROME OBSTACLE CHART (DECEMBER 2020)**  
**ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)**  
**( 16L 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 210304.red

Sydney Kingsford-Smith Airport 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"	4.916 (16.1)	2438.0	2528.0	3.999 (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. (2020)	Chart No. (2019)	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)									
9	9	1001	333177.3	6239432.3	5.8	19.1	4.7	1.1	ANTEN	2587.9	0 West	3.06	Antenna	Nov 20	Y
		1974	333176.7	6239320.0	6.6	21.7	6.0	0.6	SPIRE	2697.1	26.2 West	1.54	Western Obstacle light atop RWY 16L Localiser (lit)	Nov 20	Y
		2050	333227.8	6239332.0	6.7	21.9	6.0	0.7	SPIRE	2697.1	26.2 East	1.59	Eastern Obstacle light atop RWY 16L Localiser (lit)	Nov 20	Y
14	16	2204	333268.5	6239361.6	7.6	25.0	5.8	1.8	ANTEN	2677.6	72.7 East	2.42	Aerial	Mar 21	Y
		2706	333208.1	6239500.3	4.3	14.2	4.0	0.3	SPIRE	2528.8	45.6 East	44.09	ILS Protected Area Bollard	Nov 20	Y
		2708	333214.4	6239473.6	4.4	14.4	4.3	0.0	SPIRE	2556.2	45.6 East	1.33	ILS Protected Area Bollard	Nov 20	Y
5	5	2714	333125.2	6239457.6	4.5	14.7	4.3	0.2	SPIRE	2551.3	44.9 West	2.04	ILS Protected Area Bollard	Nov 20	Y
1	1	2716	333120.1	6239480.2	4.4	14.4	4.0	0.4	SPIRE	2528.2	44.7 West	208.48	ILS Protected Area Bollard	Nov 20	Y
		2718	333091.0	6239472.8	4.2	13.8	4.0	0.2	SPIRE	2528.8	74.7 West	28.75	ILS Protected Area Bollard	Nov 20	Y
2	2	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 East	2.43	HIAL	Nov 20	Y
4	4	4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2544.5	0 West	2.43	HIAL	Nov 20	Y
3	3	4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 West	2.43	HIAL	Nov 20	Y
6	6	4346	333185.7	6239449.2	4.9	16.0	4.5	0.3	SPIRE	2573.4	12 East	1.93	HIAL	Nov 20	Y
7	7	4348	333174.0	6239446.4	4.9	16.0	4.5	0.3	SPIRE	2573.4	0 West	1.94	HIAL	Nov 20	Y
8	8	4350	333162.3	6239443.6	4.9	16.0	4.5	0.3	SPIRE	2573.4	12 West	1.93	HIAL	Nov 20	Y
		4352	333192.3	6239421.0	5.4	17.6	4.9	0.5	SPIRE	2602.3	12 East	1.83	HIAL	Nov 20	Y
		4354	333180.6	6239418.2	5.4	17.6	4.9	0.5	SPIRE	2602.3	0 West	1.83	HIAL	Nov 20	Y
		4356	333168.9	6239415.5	5.4	17.6	4.9	0.5	SPIRE	2602.3	12 West	1.83	HIAL	Nov 20	Y
12	11	4358	333198.8	6239393.0	5.8	19.1	5.2	0.6	SPIRE	2631.1	12 East	1.78	HIAL	Nov 20	Y
10	10	4360	333187.2	6239390.3	5.8	19.1	5.2	0.6	SPIRE	2631.0	0 West	1.78	HIAL	Nov 20	Y
11	12	4362	333175.5	6239387.5	5.8	19.1	5.2	0.6	SPIRE	2631.1	12 West	1.78	HIAL	Nov 20	Y
13	14	4364	333205.4	6239364.9	6.3	20.8	5.6	0.7	SPIRE	2659.9	12 East	1.77	HIAL	Nov 20	Y
	13	4366	333193.8	6239362.2	6.3	20.8	5.6	0.7	SPIRE	2659.9	0 West	1.77	HIAL	Nov 20	Y
	15	4368	333182.1	6239359.4	6.3	20.8	5.6	0.7	SPIRE	2659.9	12 West	1.77	HIAL	Nov 20	Y
		4370	333215.0	6239337.3	6.8	22.4	5.9	0.9	SPIRE	2689.0	15 East	1.75	HIAL	Nov 20	Y
		4372	333200.3	6239334.3	7.1	23.2	5.9	1.1	SPIRE	2688.6	0 West	1.91	HIAL	Nov 20	Y
		4374	333185.8	6239330.5	6.8	22.3	5.9	0.9	SPIRE	2688.9	15 West	1.75	HIAL	Nov 20	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	Nov 20	Y
	17	4378	333207.0	6239305.8	7.6	24.8	6.3	1.3	SPIRE	2717.8	0 West	1.88	Post	Nov 20	Y
		4380	333147.0	6239299.8	6.9	22.5	6.2	0.7	SPIRE	2709.9	59.8 West	1.57	RWY 34R Localiser Far Field Displacement Sensitivity Monitor Antenna	Nov 20	Y
	18	4738	333213.5	6239277.9	7.6	24.8	6.6	0.9	SPIRE	2746.5	0.1 West	1.63	HIAL	Nov 20	Y

\* Obstacle penetrates <0.05m.

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**AERODROME OBSTACLE CHART (DECEMBER 2020)**  
**ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)**  
**( 16L 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 210304.red

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(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	3.999 (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. (2020)	Chart No. (2019)	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								(%)			
1	1	2716	333120.1	6239480.2	4.4	14.4	4.0	0.4	SPIRE	2528.2	44.7 West	208.48	ILS Protected Area Bollard	Nov 20	Y
2	2	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 East	2.43	HIAL	Nov 20	Y
3	3	4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 West	2.43	HIAL	Nov 20	Y
4	4	4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2544.5	0 West	2.43	HIAL	Nov 20	Y
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6	6	4346	333185.7	6239449.2	4.9	16.0	4.5	0.3	SPIRE	2573.4	12 East	1.93	HIAL	Nov 20	Y
7	7	4348	333174.0	6239446.4	4.9	16.0	4.5	0.3	SPIRE	2573.4	0 West	1.94	HIAL	Nov 20	Y
8	8	4350	333162.3	6239443.6	4.9	16.0	4.5	0.3	SPIRE	2573.4	12 West	1.93	HIAL	Nov 20	Y
9	9	1001	333177.3	6239432.3	5.8	19.1	4.7	1.1	ANTEN	2587.9	0 West	3.06	Antenna	Nov 20	Y
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11	12	4362	333175.5	6239387.5	5.8	19.1	5.2	0.6	SPIRE	2631.1	12 West	1.78	HIAL	Nov 20	Y
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\* Obstacle penetrates <0.05m.

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AERONAUTICAL INFORMATION PUBLICATION  
AERODROME OBSTACLE CHART (DECEMBER 2020)  
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)  
( 16L 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

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NB: Obstacle database used for reduction: Obst 210304.red

<b>Sydney Kingsford-Smith Airport 16L Take Off</b>						
<b>Mid-point of origin</b>		<b>Runway Bearing</b>	<b>Height at Chainage 00</b>	<b>Runway Length</b>	<b>Chainage at Origin</b>	<b>Height at Origin</b>
<u>Easting</u>	<u>Northing</u>					
<b>(MGA94)</b>		<b>(Deg Min Sec)</b>	<b>(m) (ft)</b>	<b>(metres)</b>	<b>(metres)</b>	<b>(m) (ft)</b>
333163.594	6239490.595	166° 47' 03"	4.916 (16.1)	2438.0	2528.0	3.999 (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.

New Obstacles (Obstacles newly reflected on Type A Charts - 2020 Survey)													
Chart No. (2020)	Chart No. (2019)	Reference Number (Surveyor ID No.)	Easting MGA94	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD metres	Pen. of Lowest Surveyed Slope (1.2%) metres	Type of Obstacle	Chainage relative to RWY Start metres	Offset from Centreline metres	Gradient to top of Obstacle (%)	Description
					metres	(feet)							

**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 - 2019 Survey)													
Chart No. (2020)	Chart No. (2019)	Reference Number (Surveyor ID No.)	Easting MGA94	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD metres	Pen. of Lowest Surveyed Slope (1.2%) metres	Type of Obstacle	Chainage relative to RWY Start metres	Offset from Centreline metres	Gradient to top of Obstacle (%)	Description
					metres	(feet)							
	13	4366	333193.8	6239362.2	6.3	20.7	5.6	0.7	SPIRE	2659.9	0 West	1.77	HIAL
	15	4368	333182.1	6239359.4	6.3	20.7	5.6	0.7	SPIRE	2659.9	12 West	1.77	HIAL
	17	4378	333207.0	6239305.8	7.6	24.9	6.3	1.3	SPIRE	2717.8	0 West	1.88	Post
	18	4738	333213.5	6239277.9	7.6	24.9	6.6	0.9	SPIRE	2746.5	0.1 West	1.63	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.