

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA  
AERONAUTICAL INFORMATION PUBLICATION  
AERODROME OBSTACLE CHART (DECEMBER 2018)  
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 190130.red

Sydney Kingsford-Smith Airport      16L Take Off						
Mid-point	of origin	Runway Bearing	Height at	Runway	Chainage	Height at
Easting	Northing		Chainage 00	Length	at Origin	Origin
(MGA94)	(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	
Chart No.	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.
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. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting MGA94	Northing MGA94	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	Date Last Visited	On Airport
					metres	(feet)									
9	4	1001	333177.3	6239432.3	5.8	19.0	4.7	1.1	ANTEN	2587.9	0	3.08	Antenna	Jan 19	Y
		1974	333176.7	6239320.0	6.6	21.7	6.0	0.6	SPIRE	2697.1	26.2 West	1.55	Western Obstacle light atop RWY 16L Localiser (lit)	Nov 18	Y
		2050	333227.8	6239332.0	6.7	22.0	6.0	0.7	SPIRE	2697.1	26.2 East	1.60	Eastern Obstacle light atop RWY 16L Localiser (lit)	Nov 18	Y
16	8	2204	333268.5	6239361.6	7.6	24.9	5.8	1.8	ANTEN	2677.6	72.7 East	2.43	Aerial	Jan 19	Y
		2706	333208.1	6239500.3	4.3	14.1	4.0	0.3	SPIRE	2528.8	45.6 East	45.56	ILS Protected Area Bollard	Jan 19	Y
		2708	333214.4	6239473.6	4.4	14.4	4.3	0.0	SPIRE	2556.2	45.6 East	1.37	ILS Protected Area Bollard	Nov 18	Y
5	2	2714	333125.2	6239457.6	4.5	14.8	4.3	0.2	SPIRE	2551.3	44.9 West	2.09	ILS Protected Area Bollard	Jan 19	Y
1	1	2716	333120.1	6239480.2	4.4	14.4	4.0	0.4	SPIRE	2528.2	44.7 West	214.43	ILS Protected Area Bollard	Jan 19	Y
		2718	333091.0	6239472.8	4.2	13.8	4.0	0.2	SPIRE	2528.8	74.7 West	30.20	ILS Protected Area Bollard	Jan 19	Y
2		4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 East	2.49	HIAL	Jan 19	Y
4		4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2544.5	0	2.49	HIAL	Jan 19	Y
3		4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 West	2.49	HIAL	Jan 19	Y
6	3	4346	333185.7	6239449.2	4.9	16.1	4.5	0.3	SPIRE	2573.4	12 East	1.96	HIAL	Jan 19	Y
7		4348	333174.0	6239446.4	4.9	16.1	4.5	0.3	SPIRE	2573.4	0	1.96	HIAL	Jan 19	Y
8		4350	333162.3	6239443.6	4.9	16.1	4.5	0.3	SPIRE	2573.4	12 West	1.96	HIAL	Jan 19	Y
		4352	333192.3	6239421.0	5.4	17.7	4.9	0.5	SPIRE	2602.3	12 East	1.84	HIAL	Nov 18	Y
		4354	333180.6	6239418.2	5.4	17.7	4.9	0.5	SPIRE	2602.3	0	1.84	HIAL	Nov 18	Y
		4356	333168.9	6239415.5	5.4	17.7	4.9	0.5	SPIRE	2602.3	12 West	1.84	HIAL	Nov 18	Y
11		4358	333198.8	6239393.0	5.8	19.0	5.2	0.6	SPIRE	2631.1	12 East	1.79	HIAL	Nov 18	Y
10		4360	333187.2	6239390.3	5.8	19.0	5.2	0.6	SPIRE	2631.0	0	1.79	HIAL	Nov 18	Y
12		4362	333175.5	6239387.5	5.8	19.0	5.2	0.6	SPIRE	2631.1	12 West	1.79	HIAL	Nov 18	Y
14	5	4364	333205.4	6239364.9	6.3	20.7	5.6	0.8	SPIRE	2659.9	12 East	1.78	HIAL	Jan 19	Y
13	6	4366	333193.8	6239362.2	6.3	20.7	5.6	0.8	SPIRE	2659.9	0	1.77	HIAL	Jan 19	Y
15	7	4368	333182.1	6239359.4	6.3	20.7	5.6	0.8	SPIRE	2659.9	12 West	1.77	HIAL	Nov 18	Y
		4370	333215.0	6239337.3	6.8	22.3	5.9	0.9	SPIRE	2689.0	15 East	1.76	HIAL	Jan 19	Y
		4372	333201.5	6239334.1	6.8	22.3	5.9	0.9	SPIRE	2689.0	1.1 East	1.76	HIAL	Jan 19	Y
		4374	333185.8	6239330.5	6.8	22.3	5.9	0.9	SPIRE	2688.9	15 West	1.75	HIAL	Jan 19	Y
		4376	333205.2	6239313.5	7.3	24.0	6.2	1.2	SPIRE	2710.0	0	1.85	RWY 34R Localiser Far Field Centreline Monitor Antenna	Jan 19	Y
17		4378	333207.0	6239305.8	7.6	24.9	6.3	1.3	SPIRE	2717.8	0	1.88	Post	Jan 19	Y
		4380	333147.0	6239299.8	6.9	22.6	6.2	0.7	SPIRE	2709.9	59.8 West	1.58	RWY 34R Localiser Far Field Displacement Sensitivity Monitor Antenna	Jan 19	Y
18		4738	333213.5	6239277.9	7.6	24.9	6.6	0.9	SPIRE	2746.5	0.1 West	1.63	HIAL	Jan 19	Y

\* Obstacle penetrates <0.05m.

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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 190130.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>		(m)	(ft)			(m)	(ft)
(MGA94)	(MGA94)	(Deg Min Sec)			(metres)	(metres)		
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. (2018)	Chart No. (2017)	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				metres	(%)
1	1	2716	333120.1	6239480.2	4.4	14.4	4.0	0.4	SPIRE	2528.2	44.7 West	214.43	ILS Protected Area Bollard	Jan 19	Y		
2		4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 East	2.49	HIAL	Jan 19	Y		
3		4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 West	2.49	HIAL	Jan 19	Y		
4		4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2544.5	0	2.49	HIAL	Jan 19	Y		
5	2	2714	333125.2	6239457.6	4.5	14.8	4.3	0.2	SPIRE	2551.3	44.9 West	2.09	ILS Protected Area Bollard	Jan 19	Y		
6	3	4346	333185.7	6239449.2	4.9	16.1	4.5	0.3	SPIRE	2573.4	12 East	1.96	HIAL	Jan 19	Y		
7		4348	333174.0	6239446.4	4.9	16.1	4.5	0.3	SPIRE	2573.4	0	1.96	HIAL	Jan 19	Y		
8		4350	333162.3	6239443.6	4.9	16.1	4.5	0.3	SPIRE	2573.4	12 West	1.96	HIAL	Jan 19	Y		
9	4	1001	333177.3	6239432.3	5.8	19.0	4.7	1.1	ANTEN	2587.9	0	3.08	Antenna	Jan 19	Y		
10		4360	333187.2	6239390.3	5.8	19.0	5.2	0.6	SPIRE	2631.0	0	1.79	HIAL	Nov 18	Y		
11		4358	333198.8	6239393.0	5.8	19.0	5.2	0.6	SPIRE	2631.1	12 East	1.79	HIAL	Nov 18	Y		
12		4362	333175.5	6239387.5	5.8	19.0	5.2	0.6	SPIRE	2631.1	12 West	1.79	HIAL	Nov 18	Y		
13	6	4366	333193.8	6239362.2	6.3	20.7	5.6	0.8	SPIRE	2659.9	0	1.77	HIAL	Jan 19	Y		
14	5	4364	333205.4	6239364.9	6.3	20.7	5.6	0.8	SPIRE	2659.9	12 East	1.78	HIAL	Jan 19	Y		
15	7	4368	333182.1	6239359.4	6.3	20.7	5.6	0.8	SPIRE	2659.9	12 West	1.77	HIAL	Nov 18	Y		
16	8	2204	333268.5	6239361.6	7.6	24.9	5.8	1.8	ANTEN	2677.6	72.7 East	2.43	Aerial	Jan 19	Y		
17		4378	333207.0	6239305.8	7.6	24.9	6.3	1.3	SPIRE	2717.8	0	1.88	Post	Jan 19	Y		
18		4738	333213.5	6239277.9	7.6	24.9	6.6	0.9	SPIRE	2746.5	0.1 West	1.63	HIAL	Jan 19	Y		

\* Obstacle penetrates <0.05m.

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AERONAUTICAL INFORMATION PUBLICATION  
AERODROME OBSTACLE CHART (DECEMBER 2018)  
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

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

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NB: Obstacle database used for reduction: Obst 190130.red

Mid-point of origin		Runway Bearing	Height at		Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>		Chainage 00				
(MGA94)	(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.

New Obstacles (Obstacles newly reflected on Type A Charts - 2018 Survey)													
Chart No. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting MGA94	Northing MGA94	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)							
2		4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 East	2.49	HIAL
4		4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2544.5	0	2.49	HIAL
3		4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2544.5	12 West	2.49	HIAL
7		4348	333174.0	6239446.4	4.9	16.1	4.5	0.3	SPIRE	2573.4	0	1.96	HIAL
8		4350	333162.3	6239443.6	4.9	16.1	4.5	0.3	SPIRE	2573.4	12 West	1.96	HIAL
11		4358	333198.8	6239393.0	5.8	19.0	5.2	0.6	SPIRE	2631.1	12 East	1.79	HIAL
10		4360	333187.2	6239390.3	5.8	19.0	5.2	0.6	SPIRE	2631.0	0	1.79	HIAL
12		4362	333175.5	6239387.5	5.8	19.0	5.2	0.6	SPIRE	2631.1	12 West	1.79	HIAL
17		4378	333207.0	6239305.8	7.6	24.9	6.3	1.3	SPIRE	2717.8	0	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 '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 - 2017 Survey)													
Chart No. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting MGA94	Northing MGA94	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 '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.