

Monthly Data Summary

LIDDELL MONTHLY DATA SUMMARY MARCH 2016

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	MARCH 2016

A1 Licence Holder

Licence Number 2122
Licence Holder AGL MACQUARIE
Trading Name (if applicable)
ABN 18 167 859 494

A2 Premises to which Licence Applies (if applicable)

Common Name (if any) LIDDELL POWER STATION
Premises NEW ENGLAND HIGHWAY MUSWELLBROOK NSW 2333

A3 Activities to which Licence Applies

Electricity Generating Works
Coal Works

A4 Other Activities (if applicable)

Helicopter-related facilities
Chemical storage
Operation of Emergency 1.5 MW diesel generator
Operation of Gas turbine
Sewage treatment
Waste storage

A5 Fee-Based Activity Classifications

Note that the fee based activity classification is used to calculate the administrative fee.

Fee-based activity	Activity scale	Unit of measure
Coal works	> 5,000,000.00	T handled
Generation of electrical power from coal	> 4,000.00	Gwh generated

Monthly Data Summary

Discharge & Monitoring Point 7

301204 East 6416350 North

Discharge to Air

In the flue gases of unit 1 boiler labelled as "Unit 1 Boiler 1-2 Chimney Stack" on plan no. LD 800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
MARCH 2016	14/04/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	493.5	621.5	722.0	1500 mg/m ³
MARCH 2016	14/04/2016		parts per million				240.4	302.8	351.8	700 ppm
MARCH 2016	14/04/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	759.2	1037.2	1251.4	
MARCH 2016	14/04/2016		parts per million				265.6	362.9	437.9	600 ppm
MARCH 2016	14/04/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	6.5	7.6	9.3	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 1 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³			
Sep-15	14/10/2015	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0			
Sep-15	14/10/2015	Chlorine	milligrams per cubic metre	1	1	0.0	200			
Sep-15	14/10/2015	Copper	milligrams per cubic metre	1	1	0.0007				
Sep-15	14/10/2015	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.015	5			
Sep-15	14/10/2015	Hydrogen chloride	milligrams per cubic metre	1	1	10.0	100			
Sep-15	14/10/2015	Mercury	milligrams per cubic metre	1	1	0.00049	1.0			
Sep-15	14/10/2015	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500			
Sep-15	14/10/2015	Solid particles	milligrams per cubic metre	1	1	24.0	100			
Sep-15	14/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	12.000	100			
Sep-15	14/10/2015	Sulphur dioxide	milligrams per cubic metre	1	1	1000				
Sep-15	14/10/2015	Total fluoride	milligrams per cubic metre	1	1	11.0	50			
Sep-15	14/10/2015	Volatile organic compounds	milligrams per cubic metre	1	1	<0.0087				
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 1 tested 8 Sep 15.										

Monthly Data Summary

Discharge & Monitoring Point 8

301204 East 6416350 North

In the flue gases of unit 2 boiler labelled as "Unit 2 Boiler 1-2 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
MARCH 2016	14/04/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	293	480	627	1500 mg/m ³
MARCH 2016	14/04/2016		parts per million				143	234	306	700 ppm
MARCH 2016	14/04/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	799	1169	1385	
MARCH 2016	14/04/2016		parts per million				280	409	485	600 ppm
MARCH 2016	14/04/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	4.1	6.8	9.3	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 2 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³
Sep-15	14/10/2015	Cadmium	milligrams per cubic metre	1	1	0.0000	1.0
Sep-15	14/10/2015	Chlorine	milligrams per cubic metre	1	1	<0.0042	200
Sep-15	14/10/2015	Copper	milligrams per cubic metre	1	1	0.0013	
Sep-15	14/10/2015	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.014	5
Sep-15	14/10/2015	Hydrogen chloride	milligrams per cubic metre	1	1	16.0	100
Sep-15	14/10/2015	Mercury	milligrams per cubic metre	1	1	0.00033	1.0
Sep-15	14/10/2015	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
Sep-15	14/10/2015	Solid particles	milligrams per cubic metre	1	1	21.0	100
Sep-15	14/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	7.200	100
Sep-15	14/10/2015	Sulphur dioxide	milligrams per cubic metre	1	1	1100	
Sep-15	14/10/2015	Total fluoride	milligrams per cubic metre	1	1	9.6	50
Sep-15	14/10/2015	Volatile organic compounds	milligrams per cubic metre	1	1	<0.013	
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 2 tested 9 Sep 15.							

Monthly Data Summary

Discharge & Monitoring Point 9

301204 East 6416350 North

In the flue gases of unit 3 boiler labelled as "Unit 3 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
MARCH 2016	14/04/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	338.7	574.9	750.3	1500 mg/m ³
MARCH 2016	14/04/2016		parts per million				165.0			280.1
MARCH 2016	14/04/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	795.9	1085.0	1302.4	
MARCH 2016	14/04/2016		parts per million				278.5			379.6
MARCH 2016	14/04/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	1.7	5.4	10.2	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 3 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³
MARCH 2016	14/04/2016	Cadmium	milligrams per cubic metre	1	1	<0.00016	1.0
MARCH 2016	14/04/2016	Chlorine	milligrams per cubic metre	1	1	0.0	200
MARCH 2016	14/04/2016	Copper	milligrams per cubic metre	1	1	0.000	
MARCH 2016	14/04/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.007	5
MARCH 2016	14/04/2016	Hydrogen chloride	milligrams per cubic metre	1	1	19.0	100
MARCH 2016	14/04/2016	Mercury	milligrams per cubic metre	1	1	0.000	1.0
MARCH 2016	14/04/2016	Nitrogen oxides	milligrams per cubic metre	1	1	610	1500
MARCH 2016	14/04/2016	Solid particles	milligrams per cubic metre	1	1	37.0	100
MARCH 2016	14/04/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	0.710	100
MARCH 2016	14/04/2016	Sulphur dioxide	milligrams per cubic metre	1	1	1400	
MARCH 2016	14/04/2016	Total fluoride	milligrams per cubic metre	1	1	11.0	50
MARCH 2016	14/04/2016	Volatile organic compounds	milligrams per cubic metre	1	1	<0.015	
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. Unit 3 was tested 2 December 2014. Due to be tested 3 May 2016							

Monthly Data Summary

Discharge & Monitoring Point 10

301204 East 6416350 North

In the flue gases of unit 4 boiler labelled as "Unit 4 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
MARCH 2016	14/04/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	285.9	433.7	594.0	1500 mg/m ³
MARCH 2016	14/04/2016		parts per million				139.3	211.3	289.4	700 ppm
MARCH 2016	14/04/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	746.0	915.5	1096.9	
MARCH 2016	14/04/2016		parts per million				261.0	320.3	383.8	600 ppm
MARCH 2016	14/04/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.6	4.4	7.3	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 4 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³			
Jan-16	23/02/2016	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0			
Jan-16	23/02/2016	Chlorine	milligrams per cubic metre	1	1	<0.02	200			
Jan-16	23/02/2016	Copper	milligrams per cubic metre	1	1	0.0011				
Jan-16	23/02/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	<0.041	5			
Jan-16	23/02/2016	Hydrogen chloride	milligrams per cubic metre	1	1	11.0	100			
Jan-16	23/02/2016	Mercury	milligrams per cubic metre	1	1	0.00022	1.0			
Jan-16	23/02/2016	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500			
Jan-16	23/02/2016	Solid particles	milligrams per cubic metre	1	1	58.0	100			
Jan-16	23/02/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.100	100			
Jan-16	23/02/2016	Sulphur dioxide	milligrams per cubic metre	1	1	660				
Jan-16	23/02/2016	Total fluoride	milligrams per cubic metre	1	1	8.6	50			
Jan-16	23/02/2016	Volatile organic compounds	milligrams per cubic metre	1	1	0.034				
Comments:	Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 4 tested 19 Jan 16.									

Monthly Data Summary

Details of Non-Compliance with Licence
Nil
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
NA
If required, further details on particulars of non-compliance
NA
Date(s) when the non-compliance occurred, if applicable
NA
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
NA
Cause of non-compliance
NA
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
NA
Action taken or that will be taken to prevent a recurrence of the non-compliance
NA