

Monthly Data Summary

LIDDELL MONTHLY DATA SUMMARY FEBRUARY 2016

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	FEBRUARY 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
FEBRUARY 2016	11/03/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	465.7	638.2	766.3	1500 mg/m ³
FEBRUARY 2016	11/03/2016		parts per million				226.9	310.9	373.4	700 ppm
FEBRUARY 2016	11/03/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	807.8	1090.4	1649.0	
FEBRUARY 2016	11/03/2016		parts per million				282.6	381.5	577.0	600 ppm
FEBRUARY 2016	11/03/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	4.6	6.6	8.8	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
FEBRUARY 2016	11/03/2016	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
FEBRUARY 2016	11/03/2016	Chlorine	milligrams per cubic metre	1	1	0.0	200
FEBRUARY 2016	11/03/2016	Copper	milligrams per cubic metre	1	1	0.0007	
FEBRUARY 2016	11/03/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.015	5
FEBRUARY 2016	11/03/2016	Hydrogen chloride	milligrams per cubic metre	1	1	10.0	100
FEBRUARY 2016	11/03/2016	Mercury	milligrams per cubic metre	1	1	0.00049	1.0
FEBRUARY 2016	11/03/2016	Nitrogen oxides	milligrams per cubic metre	1	1	840	1500
FEBRUARY 2016	11/03/2016	Solid particles	milligrams per cubic metre	1	1	24.0	100
FEBRUARY 2016	11/03/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	12.000	100
FEBRUARY 2016	11/03/2016	Sulphur dioxide	milligrams per cubic metre	1	1	1000	
FEBRUARY 2016	11/03/2016	Total fluoride	milligrams per cubic metre	1	1	11.0	50
FEBRUARY 2016	11/03/2016	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. Unit 1 was tested 8 September 2015							

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
FEBRUARY 2016	11/03/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	229	412	574	1500 mg/m ³
FEBRUARY 2016	11/03/2016		parts per million				112	201	280	700 ppm
FEBRUARY 2016	11/03/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	913	1125	1339	
FEBRUARY 2016	11/03/2016		parts per million				319	394	468	600 ppm
FEBRUARY 2016	11/03/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	3.8	6.9	10.2	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
FEBRUARY 2016	11/03/2016	Cadmium	milligrams per cubic metre	1	1	0.0000	1.0
FEBRUARY 2016	11/03/2016	Chlorine	milligrams per cubic metre	1	1	<0.0042	200
FEBRUARY 2016	11/03/2016	Copper	milligrams per cubic metre	1	1	0.0013	
FEBRUARY 2016	11/03/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.014	5
FEBRUARY 2016	11/03/2016	Hydrogen chloride	milligrams per cubic metre	1	1	16.0	100
FEBRUARY 2016	11/03/2016	Mercury	milligrams per cubic metre	1	1	0.00033	1.0
FEBRUARY 2016	11/03/2016	Nitrogen oxides	milligrams per cubic metre	1	1	530	1500
FEBRUARY 2016	11/03/2016	Solid particles	milligrams per cubic metre	1	1	21.0	100
FEBRUARY 2016	11/03/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	7.200	100
FEBRUARY 2016	11/03/2016	Sulphur dioxide	milligrams per cubic metre	1	1	1100	
FEBRUARY 2016	11/03/2016	Total fluoride	milligrams per cubic metre	1	1	9.6	50
FEBRUARY 2016	11/03/2016	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. Unit 2 was tested 9 September 2015							

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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
FEBRUARY 2016	11/03/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	442.3	588.7	736.8	1500 mg/m ³
FEBRUARY 2016	11/03/2016		parts per million				215.5			286.8
FEBRUARY 2016	11/03/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	791.3	1076.1	1655.9	
FEBRUARY 2016	11/03/2016		parts per million				276.9			376.5
FEBRUARY 2016	11/03/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	3.4	6.2	16.7	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
FEBRUARY 2016	11/03/2016	Cadmium	milligrams per cubic metre	1	1	<0.00016	1.0
FEBRUARY 2016	11/03/2016	Chlorine	milligrams per cubic metre	1	1	0.0	200
FEBRUARY 2016	11/03/2016	Copper	milligrams per cubic metre	1	1	0.000	
FEBRUARY 2016	11/03/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.007	5
FEBRUARY 2016	11/03/2016	Hydrogen chloride	milligrams per cubic metre	1	1	19.0	100
FEBRUARY 2016	11/03/2016	Mercury	milligrams per cubic metre	1	1	0.000	1.0
FEBRUARY 2016	11/03/2016	Nitrogen oxides	milligrams per cubic metre	1	1	610	1500
FEBRUARY 2016	11/03/2016	Solid particles	milligrams per cubic metre	1	1	37.0	100
FEBRUARY 2016	11/03/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	0.710	100
FEBRUARY 2016	11/03/2016	Sulphur dioxide	milligrams per cubic metre	1	1	1400	
FEBRUARY 2016	11/03/2016	Total fluoride	milligrams per cubic metre	1	1	11.0	50
FEBRUARY 2016	11/03/2016	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 Dec ember 2014. Due to be tested 23 March 2016							

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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
FEBRUARY 2016	11/03/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	367.3	565.5	727.7	1500 mg/m ³
FEBRUARY 2016	11/03/2016		parts per million				179.0	275.5	354.6	700 ppm
FEBRUARY 2016	11/03/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	701.1	981.5	1650.4	
FEBRUARY 2016	11/03/2016		parts per million				245.3	343.4	577.5	600 ppm
FEBRUARY 2016	11/03/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	3.7	6.1	9.3	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
FEBRUARY 2016	11/03/2016	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
FEBRUARY 2016	11/03/2016	Chlorine	milligrams per cubic metre	1	1	<0.02	200
FEBRUARY 2016	11/03/2016	Copper	milligrams per cubic metre	1	1	0.0011	
FEBRUARY 2016	11/03/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	<0.041	5
FEBRUARY 2016	11/03/2016	Hydrogen chloride	milligrams per cubic metre	1	1	11.0	100
FEBRUARY 2016	11/03/2016	Mercury	milligrams per cubic metre	1	1	0.00022	1.0
FEBRUARY 2016	11/03/2016	Nitrogen oxides	milligrams per cubic metre	1	1	850	1500
FEBRUARY 2016	11/03/2016	Solid particles	milligrams per cubic metre	1	1	58.0	100
FEBRUARY 2016	11/03/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.100	100
FEBRUARY 2016	11/03/2016	Sulphur dioxide	milligrams per cubic metre	1	1	660	
FEBRUARY 2016	11/03/2016	Total fluoride	milligrams per cubic metre	1	1	8.6	50
FEBRUARY 2016	11/03/2016	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. Unit 4 was tested 19 January 2016							

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

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