

Monthly Data Summary

LIDDELL MONTHLY DATA SUMMARY SEPTEMBER 2015

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	01/09/2015 to 30/09/2015

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
Sep-15	15/10/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	428.0	645.4	1262.0	1500 mg/m ³
Sep-15	15/10/2015		parts per million				208.5	314.4	614.8	700 ppm
Sep-15	15/10/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	888.5	1193.0	1698.0	
Sep-15	15/10/2015		parts per million				310.9	417.4	594.1	600 ppm
Sep-15	15/10/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	1.6	3.2	6.6	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	15/10/2015	Cadmium	milligrams per cubic metre	1			1.0
Sep-15	15/10/2015	Chlorine	milligrams per cubic metre	1			200
Sep-15	15/10/2015	Copper	milligrams per cubic metre	1			
Sep-15	15/10/2015	Hazardous substances (Metals)	milligrams per cubic metre	1			5
Sep-15	15/10/2015	Hydrogen chloride	milligrams per cubic metre	1			100
Sep-15	15/10/2015	Nitrogen oxides	milligrams per cubic metre	1			1500
Sep-15	15/10/2015	Solid particles	milligrams per cubic metre	1			100
Sep-15	15/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1			100
Sep-15	15/10/2015	Sulphur dioxide	milligrams per cubic metre	1			
Sep-15	15/10/2015	Total fluoride	milligrams per cubic metre	1			50
Sep-15	15/10/2015	Volatile organic compounds	milligrams per cubic metre	1			
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. In most years one boiler is tested each quarter. 8-Sept-15 Test results not available at time of publication							

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
Sep-15	15/10/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	255	589	739	1500 mg/m ³
Sep-15	15/10/2015		parts per million				124	287	360	700 ppm
Sep-15	15/10/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	805	1137	1304	
Sep-15	15/10/2015		parts per million				281	398	456	600 ppm
Sep-15	15/10/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	1.8	3.6	5.2	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
Sep-15	15/10/2015	Cadmium	milligrams per cubic metre	1	1	0.00015	1.0
Sep-15	15/10/2015	Chlorine	milligrams per cubic metre	1	1	0.055	200
Sep-15	15/10/2015	Copper	milligrams per cubic metre	1	1	0.00069	
Sep-15	15/10/2015	Hazardous substances	milligrams per cubic metre	1	1	0.0058	5
Sep-15	15/10/2015	Hydrogen chloride	milligrams per cubic metre	1	1	28	100
Sep-15	15/10/2015	Nitrogen oxides	milligrams per cubic metre	1	1	600	1500
Sep-15	15/10/2015	Solid particles	milligrams per cubic metre	1	1	12	100
Sep-15	15/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	0.77	100
Sep-15	15/10/2015	Sulphur dioxide	milligrams per cubic metre	1	1	1100	
Sep-15	15/10/2015	Total fluoride	milligrams per cubic metre	1	1	12	50
Sep-15	15/10/2015	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. In most years one boiler is tested each quarter.							

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
Sep-15	15/10/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	358.7	643.7	756.3	1500 mg/m ³
Sep-15	15/10/2015		parts per million				174.8			313.6
Sep-15	15/10/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	913.3	1174.3	1382.3	
Sep-15	15/10/2015		parts per million				319.6			410.9
Sep-15	15/10/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	6.1	8.2	10.6	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
Sep-15	15/10/2015	Cadmium	milligrams per cubic metre	1	1	0.00016	1.0
Sep-15	15/10/2015	Chlorine	milligrams per cubic metre	1	1	0.04	200
Sep-15	15/10/2015	Copper	milligrams per cubic metre	1	1	0.00031	
Sep-15	15/10/2015	Hazardous substances	milligrams per cubic metre	1	1	0.0065	5
Sep-15	15/10/2015	Hydrogen chloride	milligrams per cubic metre	1	1	19	100
Sep-15	15/10/2015	Nitrogen oxides	milligrams per cubic metre	1	1	610	1500
Sep-15	15/10/2015	Solid particles	milligrams per cubic metre	1	1	24	100
Sep-15	15/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	0.71	100
Sep-15	15/10/2015	Sulphur dioxide	milligrams per cubic metre	1	1	1400	
Sep-15	15/10/2015	Total fluoride	milligrams per cubic metre	1	1	11	50
Sep-15	15/10/2015	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. In most years one boiler is tested each quarter. This table contains the latest results from Boiler 3.							

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
Sep-15	15/10/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	215.5	563.2	790.8	1500 mg/m ³
Sep-15	15/10/2015		parts per million				105.0	274.4	385.3	700 ppm
Sep-15	15/10/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	857.5	1126.5	1470.6	
Sep-15	15/10/2015		parts per million				300.0	394.2	514.5	600 ppm
Sep-15	15/10/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	5.1	7.0	9.0	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
Sep-15	15/10/2015	Cadmium	milligrams per cubic metre	1	1	<0.00014	1.0
Sep-15	15/10/2015	Chlorine	milligrams per cubic metre	1	1	0.05	200
Sep-15	15/10/2015	Copper	milligrams per cubic metre	1	1	0.0067	
Sep-15	15/10/2015	Hazardous substances	milligrams per cubic metre	1	1	0.011	5
Sep-15	15/10/2015	Hydrogen chloride	milligrams per cubic metre	1	1	13	100
Sep-15	15/10/2015	Nitrogen oxides	milligrams per cubic metre	1	1	790	1500
Sep-15	15/10/2015	Solid particles	milligrams per cubic metre	1	1	31	100
Sep-15	15/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.3	100
Sep-15	15/10/2015	Sulphur dioxide	milligrams per cubic metre	1	1	890	
Sep-15	15/10/2015	Total fluoride	milligrams per cubic metre	1	1	7.7	50
Sep-15	15/10/2015	Volatile organic compounds	milligrams per cubic metre	1	1	<0.019	
Comments:		Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. In most years one boiler is tested each quarter.					

Monthly Data Summary

Details of Non-Compliance with Licence

Summary of particulars of the non-compliance **(NO MORE THAN 50 WORDS)**

NIL

If required, further details on particulars of non-compliance

Date(s) when the non-compliance occurred, if applicable

If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance

Cause of non-compliance

Action taken or that will be taken to mitigate any adverse effects of the non-compliance

Action taken or that will be taken to prevent a recurrence of the non-compliance