

Monthly Data Summary

LIDDELL MONTHLY DATA SUMMARY NOVEMBER 2015

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	NOVEMBER 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
NOVEMBER 2015	4/12/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	305.3	679.2	789.4	1500 mg/m ³
NOVEMBER 2015	4/12/2015		parts per million				148.7	330.9	384.6	700 ppm
NOVEMBER 2015	4/12/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	610.5	1014.9	1153.1	
NOVEMBER 2015	4/12/2015		parts per million				213.6	355.1	403.5	600 ppm
NOVEMBER 2015	4/12/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.8	6.9	15.5	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
NOVEMBER 2015	4/12/2015	Cadmium	milligrams per cubic metre	1	1	<0.00012	1.0
NOVEMBER 2015	4/12/2015	Chlorine	milligrams per cubic metre	1	1	0.0	200
NOVEMBER 2015	4/12/2015	Copper	milligrams per cubic metre	1	1	0.001	
NOVEMBER 2015	4/12/2015	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.015	5
NOVEMBER 2015	4/12/2015	Hydrogen chloride	milligrams per cubic metre	1	1	10.0	100
NOVEMBER 2015	4/12/2015	Mercury	milligrams per cubic metre	1	1	0.0005	1.0
NOVEMBER 2015	4/12/2015	Nitrogen oxides	milligrams per cubic metre	1	1	840	1500
NOVEMBER 2015	4/12/2015	Solid particles	milligrams per cubic metre	1	1	24.0	100
NOVEMBER 2015	4/12/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	12.000	100
NOVEMBER 2015	4/12/2015	Sulphur dioxide	milligrams per cubic metre	1	1	1000	
NOVEMBER 2015	4/12/2015	Total fluoride	milligrams per cubic metre	1	1	11.0	50
NOVEMBER 2015	4/12/2015	Volatile organic compounds	milligrams per cubic metre	1	1	<0.018	

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. Tested 8-Sept-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
NOVEMBER 2015	4/12/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour					1500 mg/m3
NOVEMBER 2015	4/12/2015		parts per million							700 ppm
NOVEMBER 2015	4/12/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour					
NOVEMBER 2015	4/12/2015		parts per million							
NOVEMBER 2015	4/12/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour					20%
Comments:		Unit out of service during the entire reporting period								

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	
		Cadmium	milligrams per cubic metre	1	1		1.0	
		Chlorine	milligrams per cubic metre	1	1		200	
		Copper	milligrams per cubic metre	1	1			
		Hazardous substances (Metals)	milligrams per cubic metre	1	1		5	
		Hydrogen chloride	milligrams per cubic metre	1	1		100	
		Mercury	milligrams per cubic metre	1	1		1.0	
		Nitrogen oxides	milligrams per cubic metre	1	1		1500	
		Solid particles	milligrams per cubic metre	1	1		100	
		Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1		100	
		Sulphur dioxide	milligrams per cubic metre	1	1			
		Total fluoride	milligrams per cubic metre	1	1		50	
		Volatile organic compounds	milligrams per cubic metre	1	1			
Comments:		Unit out of service during the entire reporting period						

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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
NOVEMBER 2015	4/12/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour					1500 mg/m ³
NOVEMBER 2015	4/12/2015		parts per million							700 ppm
NOVEMBER 2015	4/12/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour					
NOVEMBER 2015	4/12/2015		parts per million							600 ppm
NOVEMBER 2015	4/12/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour					20%
Comments:		Unit out of service during the entire reporting period								

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	
		Cadmium	milligrams per cubic metre	1	1		1.0	
		Chlorine	milligrams per cubic metre	1	1		200	
		Copper	milligrams per cubic metre	1	1			
		Hazardous substances (Metals)	milligrams per cubic metre	1	1		5	
		Hydrogen chloride	milligrams per cubic metre	1	1		100	
		Mercury	milligrams per cubic metre	1	1		1.0	
		Nitrogen oxides	milligrams per cubic metre	1	1		1500	
		Solid particles	milligrams per cubic metre	1	1		100	
		Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1		100	
		Sulphur dioxide	milligrams per cubic metre	1	1			
		Total fluoride	milligrams per cubic metre	1	1		50	
		Volatile organic compounds	milligrams per cubic metre	1	1			
Comments:		Unit out of service during the entire reporting period						

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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
NOVEMBER 2015	4/12/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	279.9	633.0	834.4	1500 mg/m ³
NOVEMBER 2015	4/12/2015		parts per million				136.4	308.4	406.5	700 ppm
NOVEMBER 2015	4/12/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	594.2	916.1	1154.9	
NOVEMBER 2015	4/12/2015		parts per million				207.9	320.5	404.1	600 ppm
NOVEMBER 2015	4/12/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	6.0	8.9	19.4	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
NOVEMBER 2015	4/12/2015	Cadmium	milligrams per cubic metre	1	1	<0.00014	1.0
NOVEMBER 2015	4/12/2015	Chlorine	milligrams per cubic metre	1	1	0.1	200
NOVEMBER 2015	4/12/2015	Copper	milligrams per cubic metre	1	1	0.007	
NOVEMBER 2015	4/12/2015	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.011	5
NOVEMBER 2015	4/12/2015	Hydrogen chloride	milligrams per cubic metre	1	1	13.0	100
NOVEMBER 2015	4/12/2015	Mercury	milligrams per cubic metre	1	1	0.00008	1.0
NOVEMBER 2015	4/12/2015	Nitrogen oxides	milligrams per cubic metre	1	1	790	1500
NOVEMBER 2015	4/12/2015	Solid particles	milligrams per cubic metre	1	1	31.0	100
NOVEMBER 2015	4/12/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.300	100
NOVEMBER 2015	4/12/2015	Sulphur dioxide	milligrams per cubic metre	1	1	890	
NOVEMBER 2015	4/12/2015	Total fluoride	milligrams per cubic metre	1	1	7.7	50
NOVEMBER 2015	4/12/2015	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. Tested 12-May-15							

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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