

Monthly Data Summary

LIDDELL MONTHLY DATA SUMMARY AUGUST 2016

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	AUGUST 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
AUGUST 2016	11/09/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	469.7	598.5	725.8	1500 mg/m ³
AUGUST 2016	11/09/2015		parts per million				228.8	291.6	353.6	700 ppm
AUGUST 2016	11/09/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	834.4	1009.8	1449.6	
AUGUST 2016	11/09/2015		parts per million				291.9	353.3	507.2	600 ppm
AUGUST 2016	11/09/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	4.6	7.7	13.2	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	<0.018	
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
AUGUST 2016	11/09/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	392	599	873	1500 mg/m ³
AUGUST 2016	11/09/2015		parts per million				191	292	425	700 ppm
AUGUST 2016	11/09/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	720	976	1099	
AUGUST 2016	11/09/2015		parts per million				252	342	385	600 ppm
AUGUST 2016	11/09/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.8	4.3	6.4	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	<0.026				
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
AUGUST 2016	11/09/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	98.9%	421.6	623.8	869.4	1500 mg/m ³
AUGUST 2016	11/09/2015		parts per million				205.4			303.9
AUGUST 2016	11/09/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	98.9%	838.7	1011.6	1184.3	
AUGUST 2016	11/09/2015		parts per million				293.4			353.9
AUGUST 2016	11/09/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.4	4.2	13.4	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
Jun-16	30/06/2016	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
Jun-16	30/06/2016	Chlorine	milligrams per cubic metre	1	1	0.0	200
Jun-16	30/06/2016	Copper	milligrams per cubic metre	1	1	0.0007	
Jun-16	30/06/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	<0.019	5
Jun-16	30/06/2016	Hydrogen chloride	milligrams per cubic metre	1	1	3.3	100
Jun-16	30/06/2016	Mercury	milligrams per cubic metre	1	1	0.00063	1.0
Jun-16	30/06/2016	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
Jun-16	30/06/2016	Solid particles	milligrams per cubic metre	1	1	35.0	100
Jun-16	30/06/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	58.000	100
Jun-16	30/06/2016	Sulphur dioxide	milligrams per cubic metre	1	1	970	
Jun-16	30/06/2016	Total fluoride	milligrams per cubic metre	1	1	3.6	50
Jun-16	30/06/2016	Volatile organic compounds	milligrams per cubic metre	1	1	<0.03	
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. Boiler 3 was tested 7 June 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
AUGUST 2016	11/09/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	349.0	538.9	694.2	1500 mg/m ³
AUGUST 2016	11/09/2015		parts per million				170.0	262.6	338.2	700 ppm
AUGUST 2016	11/09/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	727.0	881.8	1361.5	
AUGUST 2016	11/09/2015		parts per million				254.4	308.5	476.4	600 ppm
AUGUST 2016	11/09/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	5.7	9.2	19.0	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
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	0.088	
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

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