LIDDELL MONTHLY DATA SUMMARY NOVEMBER 2015

	LICENCE NO	2122					
I	LICENCE HOLDER	AGL MACQUARIE NOVEMBER 2015					
R	REPORTING PERIOD						
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 applicat	ole)					
	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 Classifi	cations					
	Note that the fee based activ	vity 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

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 / measurment 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	Nillogen Oxides	parts per million	Continuous	One hour	>99% -	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	Suprur uloxide	parts per million	Continuous	One hour	>33 /6	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								

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 / measurment 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	Nitrogen Oxides	parts per million	Continuous	One hour					700 ppm
NOVEMBER 2015	4/12/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour					
NOVEMBER 2015	4/12/2015		parts per million	Continuous	One nour					600 ppm
NOVEMBER 2015	4/12/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour					20%
Comments:				Unit out o	of service during the ent	ire 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 ser	vice during the entire re	eporting period		

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 / measurment 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	Milliogen Oxides	parts per million	Continuous						700 ppm
NOVEMBER 2015	4/12/2015		milligrams per cubic metre	Continuous	One hour					
NOVEMBER 2015	4/12/2015		parts per million	Conundous	One nour					600 ppm
NOVEMBER 2015	4/12/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour					20%
Comments:				Unit out o	f service during the ent	ire reporting period				

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 ser	vice during the entire re	eporting period		

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 / measurment 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/m3
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	Sulphur dioxide	parts per million	Continuous	One hour	>33 %	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 emissi Tested 12-May-15	on from each of the 4 bo	pilers for the substar	nces in this table is requir	ed annually. In most yea	ars one boiler is tested	each quarter.

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