

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 | | | | | | | |

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 |
|---------------|---------------------|--------------------------------------|----------------------------|----------------------------------|------------------|----------------|---------------------|-----------------|----------------------|------------------------|
| 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 | | | | | | | |

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 |
|---------------|---------------------|--------------------------------------|----------------------------|----------------------------------|------------------|----------------|---------------------|-----------------|----------------------|------------------------|
| 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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