

Environment Protection Licence

Licence - 779

Licence Details

Number:	779
Anniversary Date:	01-February

Licensee

AGL MACQUARIE PTY LIMITED

PRIVATE MAIL BAG 2

MUSWELLBROOK NSW 2333

Premises

BAYSWATER POWER STATION

NEW ENGLAND HIGHWAY

MUSWELLBROOK NSW 2333

Scheduled Activity

Chemical storage

Coal works

Electricity generation

Fee Based Activity

Scale

Chemical storage waste generation	> 100 T annual volume of waste generated or stored
Coal works	> 5000000 T annual handling capacity
Generation of electrical power from coal	> 4000 GWh annual generating capacity

Region

North - Hunter

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Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

AGL MACQUARIE PTY LIMITED
PRIVATE MAIL BAG 2
MUSWELLBROOK NSW 2333

subject to the conditions which follow.

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1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Chemical storage	Chemical storage waste generation	> 100 T annual volume of waste generated or stored
Coal works	Coal works	> 5000000 T annual handling capacity
Electricity generation	Generation of electrical power from coal	> 4000 GWh annual generating capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
BAYSWATER POWER STATION
NEW ENGLAND HIGHWAY
MUSWELLBROOK
NSW 2333
SHOWN AS PLAN TITLED "BAYSWATER EPL", PLAN PRODUCED 25/08/017, PROVIDED TO THE EPA 29 AUGUST 2017 (EPA REFERENCE DOC17/400235-03).

A3 Other activities

A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity
Aircraft (helicopter) facilities
Chemical Storage Facilities
Crushing, Grinding or Separating Works
Sewage Treatment Systems

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A4 Information supplied to the EPA

- A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
4	Ambient air monitoring		Ambient air monitoring station located at Lake Liddell recreation area, shown as "EPA ID No. 4" on plan titled "Ambient Monitoring Sites, Bayswater Power Station" received on 23/4/2004.
5	Ambient air monitoring		Ambient air monitoring station located in the Energy Australia Muswellbrook Depot, shown as "EPA ID No. 5" on plan titled "BW812375 - Ambient Monitoring Sites, Bayswater Power Station " received on 25/6/2007.
6	Ambient air monitoring		Ambient air monitoring station located in the Ravensworth area, shown as "EPA ID No. 6" on plan titled "Ambient Monitoring Sites, Bayswater Power Station" received on 23/4/2004.
10	Discharge to air Air emission monitoring	Discharge to air Air emission monitoring	Boiler 1 stack emissions, shown as "EPA ID No. 10" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easements, Site Survey" dated 24/12/2004.
11	Discharge to air Air emission monitoring	Discharge to air Air emission monitoring	Boiler 2 stack emissions, shown as "EPA ID No. 11" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easements, Site Survey" dated 24/12/2004.

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12	Discharge to air Air emission monitoring	Discharge to air Air emission monitoring	Boiler 3 stack emissions, shown as "EPA ID No. 12" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easements, Site Survey" dated 24/12/2004.
13	Discharge to air Air emission monitoring	Discharge to air Air emission monitoring	Boiler 4 stack emissions, shown as "EPA ID No. 13" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easements, Site Survey" dated 24/12/2004.
16	Weather monitoring		Weather monitoring station located at Savoy Hill

P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to waters Effluent quality and volume monitoring	Discharge to waters Effluent quality and volume monitoring	Discharge from main station oil separator holding basin to Tinkers Creek, shown as "EPA ID No. 1" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easements, Site Survey" dated 24/12/2004.
7	Discharge to waters Effluent quality and volume monitoring	Discharge to waters Effluent quality and volume monitoring	Discharge from cooling towers to Tinkers Creek, shown as "EPA ID No. 7" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easements, Site Survey" dated 24/12/2004.
8	Discharge & monitoring point under the Hunter River Salinity Trading Scheme	Discharge & monitoring point under the Hunter River Salinity Trading Scheme	Discharge pipe from Lake Liddel dam wall, shown as "EPA ID No. 8" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easements, Site Survey" dated 24/12/2004.
17	Discharge & Monitoring point under the Hunter River Salinity Trading Scheme	Discharge & Monitoring point under the Hunter River Salinity Trading Scheme	Inlet point located on the Void 4 pontoon pump system
18	Discharge to waters effluent quality	Discharge to waters effluent quality	Discharge from Bayswater Ash Dam unlined flood spillway located near left abutment

3 Limit Conditions

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L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Load limits

- L2.1 The actual load of an assessable pollutant discharged from the premises during the reporting period must not exceed the load limit specified for the assessable pollutant in the table below.

Note: An assessable pollutant is a pollutant which affects the licence fee payable for the licence.

- L2.2 The actual load of an assessable pollutant must be calculated in accordance with the relevant load calculation protocol.

Assessable Pollutant	Load limit (kg)
Arsenic (Air)	
Benzo(a)pyrene (equivalent) (Air)	
Coarse Particulates (Air)	
Fine Particulates (Air)	
Fluoride (Air)	
Lead (Air)	
Mercury (Air)	
Nitrogen Oxides (Air)	
Salt (Enclosed Water)	
Selenium (Enclosed Water)	
Sulfur Oxides (Air)	
Total suspended solids (Enclosed Water)	

L3 Concentration limits

- L3.1 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L3.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L3.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.

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L3.4 Air Concentration Limits

POINT 10,11,12,13

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Cadmium	milligrams per cubic metre	1.0	dry, 273 K, 101.3 kPa		
Chlorine	milligrams per cubic metre	200	dry, 273 K, 101.3 kPa		
Sulfuric acid mist and sulfur trioxide (as SO ₃)	milligrams per cubic metre	100	dry, 273 K, 101.3 kPa		
Hydrogen chloride	milligrams per cubic metre	100	dry, 273 K, 101.3 kPa		
Nitrogen Oxides	milligrams per cubic metre	1500	dry, 273 K, 101.3 kPa		
Hazardous substances	milligrams per cubic metre	5.0	dry, 273 K, 101.3 kPa		
Total Fluoride	milligrams per cubic metre	50	dry, 273 K, 101.3 kPa		
Mercury	milligrams per cubic metre	1.0	dry, 273 K, 101.3 kPa		
Solid Particles	milligrams per cubic metre	100	dry, 273 K, 101.3 kPa	12 % CO ₂ or equivalent O ₂ percentage	

Note: For the purposes of this condition, Hazardous Substances means the aggregate of Type 1 and Type 2 substances, as defined by the *Protection of the Environment Operations (Clean Air Regulation) 2010*. These substances being:

Type 1 substance means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements.

Type 2 substance means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements.

L3.5 Start-up fuel specifications

All start-up fuel used at the premises must conform with the Australian Standard for Automotive Diesel Fuel (AS 3570 - 1998) and as updated from time to time.

L3.6 Water and/or Land Concentration Limits

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POINT 1

Pollutant	Units of Measure	50%Limit	90%Limit	3DGMLimit	100 percentile concentration limit
Oil and Grease	milligrams per litre				10
Total suspended solids	milligrams per litre				20

POINT 7

Pollutant	Units of Measure	50%Limit	90%Limit	3DGMLimit	100 percentile concentration limit
Conductivity	microsiemens per centimetre				4500
pH	pH				6.5-8.5

POINT 8

Pollutant	Units of Measure	50%Limit	90%Limit	3DGMLimit	100 percentile concentration limit
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				30

POINT 17

Pollutant	Units of Measure	50%Limit	90%Limit	3DGMLimit	100 percentile concentration limit
Boron	milligrams per litre				0.81
Cadmium	milligrams per litre				0.0003
Copper	milligrams per litre				0.001
Iron	milligrams per litre				0.27
Molybdenum	milligrams per litre				0.29

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Nickel	milligrams per litre	0.019
pH	pH	6.5-9.5
Silver (total)	milligrams per litre	0.0005
Total suspended solids	milligrams per litre	30

L4 Volume and mass limits

- L4.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
- a) liquids discharged to water; or;
 - b) solids or liquids applied to the area;
- must not exceed the volume/mass limit specified for that discharge point or area.

Point	Unit of Measure	Volume/Mass Limit
1	kilolitres per week	36400
7	megalitres per month	840
8	megalitres per day	700
17	megalitres per day	20

L5 Waste

- L5.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.
- Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.
- Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.
- This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 92 of the Protection of the Environment Operations	As specified in each particular resource recovery exemption	NA

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		(Waste) Regulation 2014		
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time	-	NA

L5.2 Except as provided by any other condition of this licence, only the following types of waste that have been generated on the premises may be treated, processed, reprocessed or disposed of at the premises:

- Acid solutions or acids in solid form,
- Asbestos,
- Fly ash and bottom ash,
- Water treatment residual chemicals
- Boiler cleaning residues,
- Lime,
- Gypsum,
- Demineralisation resins,
- Sediment basin clays
- Filter bags,
- Treated sewage effluent,
- Ash line poly pipe,
- Cooling tower sediments,
- and any other waste material approved in writing by the EPA.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O2.2 If due to emergency circumstances there is a possibility of interruption to electricity supply, limits prescribed by this licence may be temporally exceeded provided:

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- a) the licensee notifies the Environment Protection Authority of the situation at the earliest opportunity, and
- b) the Environment Protection Authority concurs with such emergency operation.

O3 Dust

- O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;
 - c) the point at which the sample was taken; and
 - d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:
- M2.2 Air Monitoring Requirements

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Nitrogen Oxides	parts per hundred million	Continuous	AM-12
Sulphur dioxide	parts per hundred million	Continuous	AM-20

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**POINT 5,6**

Pollutant	Units of measure	Frequency	Sampling Method
Fluoride	micrograms per cubic metre	Continuous	AM-8
Nitrogen Oxides	parts per hundred million	Continuous	AM-12
Sulphur dioxide	parts per hundred million	Continuous	AM-20

POINT 10,11,12,13

Pollutant	Units of measure	Frequency	Sampling Method
Cadmium	milligrams per cubic metre	Yearly	TM-12
Carbon dioxide	percent	Yearly	TM-24
Carbon monoxide	parts per million	Yearly	TM-32
Chlorine	milligrams per cubic metre	Yearly	TM-7 & TM-8
Copper	milligrams per cubic metre	Yearly	TM-12, TM-13 & TM-14
Dry gas density	kilograms per cubic metre	Yearly	TM-23
Hazardous substances	milligrams per cubic metre	Yearly	TM-12, TM-13 & TM-14
Hydrogen chloride	milligrams per cubic metre	Yearly	TM-7 & TM-8
Mercury	milligrams per cubic metre	Yearly	TM-12
Moisture content	percent	Yearly	TM-22
Molecular weight of stack gases	grams per gram mole	Yearly	TM-23
Nitrogen Oxides	grams per cubic metre	Continuous	CEM-2
Oxygen (O ₂)	percent	Yearly	TM-25
Solid Particles	milligrams per cubic metre	Yearly	TM-15
Sulfuric acid mist and sulfur trioxide (as SO ₃)	milligrams per cubic metre	Yearly	TM-3
Sulphur dioxide	milligrams per cubic metre	Continuous	CEM-2
Temperature	degrees Celsius	Yearly	TM-2
Total Fluoride	milligrams per cubic metre	Yearly	TM-9
Undifferentiated Particulates	percent Opacity	Continuous	CEM-1
Velocity	metres per second	Yearly	TM-2
Volumetric flowrate	cubic metres per second	Yearly	TM-2

Note: For the purposes of this condition, Hazardous Substances means the aggregate of Type 1 and Type 2 substances, as defined by the *Protection of the Environment Operations (Clean Air Regulation) 2010*. These substances being:

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Type 1 substance means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements.

Type 2 substance means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements.

M2.3 The selection of sampling positions must be carried out in accordance with test method TM-1.

M2.4 Water and/ or Land Monitoring Requirements

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Oil and Grease	milligrams per litre	Fortnightly	Representative sample
Total suspended solids	milligrams per litre	Fortnightly	Representative sample

POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Continuous	A probe designed to measure the range 0 to 10,000 uS/cm
pH	pH	Continuous	Probe

POINT 8

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Continuous during discharge	A probe designed to measure the range 0 to 10,000 uS/cm
pH	pH	Daily during any discharge	Representative sample
Total suspended solids	milligrams per litre	Monthly	Representative sample

POINT 17

Pollutant	Units of measure	Frequency	Sampling Method
Boron	milligrams per litre	Weekly during any discharge	Representative sample
Cadmium	milligrams per litre	Weekly during any discharge	Representative sample
Conductivity	microsiemens per centimetre	Continuous during discharge	A probe designed to measure the range 0 to 10,000 uS/cm
Copper	milligrams per litre	Weekly during any discharge	Representative sample

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Iron	milligrams per litre	Weekly during any discharge	Representative sample
Molybdenum	milligrams per litre	Weekly during any discharge	Representative sample
Nickel	milligrams per litre	Weekly during any discharge	Representative sample
pH	pH	Daily during any discharge	Representative sample
Silver (total)	milligrams per litre	Weekly during any discharge	Representative sample
Total suspended solids	milligrams per litre	Monthly during discharge	Representative sample

POINT 18

Pollutant	Units of measure	Frequency	Sampling Method
Boron	milligrams per litre	Weekly during any discharge	Grab sample
Cadmium	milligrams per litre	Weekly during any discharge	Grab sample
Copper	milligrams per litre	Weekly during any discharge	Grab sample
Electrical conductivity	microsiemens per centimetre	Weekly during any discharge	A probe designed to measure the range 0 to 10,000 uS/cm
Iron	milligrams per litre	Weekly during any discharge	Grab sample
Molybdenum	milligrams per litre	Weekly during any discharge	Grab sample
Nickel	milligrams per litre	Weekly during any discharge	Grab sample
pH	pH	Weekly during any discharge	Probe
Silver (total)	milligrams per litre	Weekly during any discharge	Grab sample
Total suspended solids	milligrams per litre	Weekly during any discharge	Grab sample

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking

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place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

- M3.2** Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

Test Method - Load Limit

- M3.3** Samples taken pursuant to a requirement in this licence to monitor the volume, mass or concentration of pollutants, must be analysed and reported in accordance with the laboratory accreditation requirements set out in section 2.1.3 of the Load Calculation Protocol.

The Load Calculation Protocol is the Protocol referred to in clause 18 of the Protection of the Environment Operations (General) Regulation 1998. A copy of the Protocol was published in the Government Gazette on 25 June 1999 and can be purchased from the EPA or viewed at <http://www.epa.nsw.gov.au>.

M4 Testing methods - load limits

Note: Division 3 of the *Protection of the Environment Operations (General) Regulation 2009* requires that monitoring of actual loads of assessable pollutants listed in L2.2 must be carried out in accordance with the relevant load calculation protocol set out for the fee-based activity classification listed in the Administrative Conditions of this licence.

M5 Environmental monitoring

- M5.1** The licensee must monitor acid deposition at two locations in the Hunter Valley that are acceptable to the EPA.
- M5.2** Grape leaves are to be monitored every three (3) years using sampling and analytical techniques that are to the satisfaction of the EPA. Five vineyards are to be monitored and sampling is to occur in January or February. Monitoring is to occur at the following vineyards, with the cultivars listed to be sampled.

Vineyard	Cultivar Sampled	Location
Coolmore (control site)	Shiraz	Jerry's Plains
Arrowfield	Chardonnay	Muswellbrook
Mt Arthur	Chardonnay and Vermentino	Muswellbrook
Cruikshank	Verdelho and Shiraz	Muswellbrook
Arrowfield	Shiraz Chardonnay	Jerrys Plains

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Mount Dangar (alternate control site)	Semillon	Sandy Hollow
Giants Creek	Shiraz	Denman

M6 Weather monitoring

M6.1 For Monitoring Point 16, the licensee must monitor (by sampling and obtaining results by analysis) the parameter specified in column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns:

Parameter	Units of measure	Averaging period	Frequency	Sampling method
Wind speed @ 10m	m/s	1 hour	Continuously	AM-2 & AM-4
Wind direction @ 10m	Degrees	1 hour	Continuously	AM-2 & AM-4
Sigma Theta @ 10m	Degrees	1 hour	Continuously	AM-2 & AM-4
Ambient temperature @ 10m	Degrees celsius	1 hour	Continuously	AM-4

M7 Recording of pollution complaints

M7.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M7.2 The record must include details of the following:

- the date and time of the complaint;
- the method by which the complaint was made;
- any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- the nature of the complaint;
- the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- if no action was taken by the licensee, the reasons why no action was taken.

M7.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M7.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M8 Telephone complaints line

M8.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

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M8.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M8.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M9 Requirement to monitor volume or mass

M9.1 For each discharge point or utilisation area specified below, the licensee must monitor:

- a) the volume of liquids discharged to water or applied to the area;
- b) the mass of solids applied to the area;
- c) the mass of pollutants emitted to the air;

at the frequency and using the method and units of measure, specified below.

POINT 1

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	kilolitres per week	Weir structure and level sensor

POINT 7

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per month	In line instrumentation

POINT 8

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per day	Special Method 1

POINT 17

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per day	In line instrumentation

Note: For the purposes of the table(s) above Special Method 1 means in-line Magflo meter (Model MAG3100) and radio telemetry.

M10 Other monitoring and recording conditions

M10.1 The licensee must continuously operate and maintain communication equipment which makes the conductivity and flow measurements, taken at Point 8 available to the Department of Land and Water Conservation within one hour of those measurements being taken and makes them available in the format specified in the "Hunter River Salinity Trading Scheme Discharge Point Site Equipment" as published by the Department of Land and Water Conservation on 7 May 2002.

M10.2 The licensee must ensure that all monitoring data is within a margin of error of 5% for conductivity measurements and 10% for discharge flow measurement.

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M10.3 The licensee must mark monitoring point 8 with a sign which clearly indicates the name of the licensee, whether the monitoring point is up or down stream of the discharge point(s) and that it is a monitoring point for the Hunter River Salinity Trading Scheme.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
1. a Statement of Compliance,
 2. a Monitoring and Complaints Summary,
 3. a Statement of Compliance - Licence Conditions,
 4. a Statement of Compliance - Load based Fee,
 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
 7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

- R1.3 Where this licence is transferred from the licensee to a new licensee:
- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

- R1.6 Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's

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control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date. The notification must specify:

- a) the assessable pollutants for which the actual load could not be calculated; and
- b) the relevant circumstances that were beyond the control of the licensee.

R1.7 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.8 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Further requirements the Annual Return must contain

R1.9 The Annual Return must include the following information:

Air emission reporting limit - The licensee must produce an air emission exceedence report if the concentration of Sulphur Dioxide at any time exceeds 600 ppm (vol). The air emission exceedence report must include the following:

- a) details of the date and time of the exceedence;
- b) the duration of the exceedence; and
- c) the reason(s) for the exceedence.

Ambient air exceedences - The licensee must produce an EPA air quality assessment criteria exceedence report containing an interpretation of any exceedences of the above criteria and details of plant operation at the time of any exceedence.

Acid deposition monitoring - The licensee must produce a report detailing the results of acid deposition monitoring. The data must be presented as long-term month-by-month time series.

Grape leaf monitoring - The licensee must produce a report that contains the results of the grape leaf fluoride monitoring required by this licence. The data must be presented in time series that allows year-to-year comparisons.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

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R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
- and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

R4 Other reporting conditions

HRSTS Reporting

- R4.1 The licensee must compile a written report of the activities under the Scheme for each scheme year. The scheme year shall run from 1 July to 30 June each year. The written report must be submitted to the EPA's regional office within 60 days after the end of each scheme year and be in a form and manner approved by the EPA. The information will be used by the EPA to compile an annual scheme report.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.

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G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Pollution Studies and Reduction Programs

U1 EIP - Coal Handling Plant (CHP) - Assessment of water quality and management

U1.1 The licensee must provide a report to the EPA that assesses the water quality discharge from the Bayswater Power Station Coal Handling Plant (CHP). This report must include, but need not be limited to the following:

1. Water sampling and testing from the natural catchment upstream, flow inputs, sediment basin located along the north west boundary of the CHP and the confluence of the overflow from the CHP sediment dam, Tinkers Creek and Lake Liddell where Tinkers Creek enters the lake;
2. Water balance, catchment study and assessment of sizing of settling basins;
3. A full assessment of all potential pollutants from the CHP, including metals, cations, anions, total suspended solids, hydrocarbons, surfactants, anti-scalants and any other chemicals used in the CHP operations;
4. Identify details of all predicted annual discharge rates, frequency and total discharge volumes from discharges associated with the CHP into Tinkers Creek;
5. A full analysis of all existing pollutants in Tinkers Creek such metals, cations, anions, total suspended solids, hydrocarbons, surfactants, anti-scalants and potential residues;
6. A review of the potential environmental impact on Tinkers Creek and Lake Liddell from discharges from the CHP. This should include impacts on water quality, potential impacts from pollutant loads and the receiving stream and lake ecology; and
7. An assessment of options to manage the CHP sedimentation system to improve water quality and minimise discharges.

A report that addresses the above must be provided electronically to hunter.region@epa.nsw.gov.au or by post to the EPA Regional Manager - Hunter, PO Box 488G Newcastle NSW 2300 by no later than 5pm on 30 JUNE 2017.

Note:

As part of this condition the licensee must have regard for current legislative requirements and guidelines which include, but is not necessarily limited to, the following:

- *Protection of the Environment Operations Act 1997*, in particular section 120 (Pollute Waters) and section 45 (Matters to be taken into consideration in licensing functions);
- ANZECC Guidelines for Fresh and Marine Water Quality (ANZECC 200);
- NSW Government Water Quality Objectives - <http://www.epa.nsw.gov.au/mao/catchment.htm>
- Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales, DEC 2004 - <http://epa.nsw.gov.au/licensing/wateranalysisMethods.htm>

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- EPA Guideline on Using Environment Protection Licensing to Control Water Pollution -
<http://www.epa.nsw.gov.au/licensing/130119eplswater.htm>

U2 Ravensworth Ash Line Containment Program

Note: The purpose of this condition is to require the licensee to investigate and determine the most feasible systems to contain leaks and spillages from the Ravensworth Ash Line.

U2.1 Ravensworth Ash Line Containment Report

By 30 SEPTEMBER 2017, the licensee must provide a report to the EPA that investigates and determines the most feasible options for a containment system for the Ravensworth Ash Slurry and Return Water Pipelines. The report must include, but need not be limited to the following:

1. Investigate and identify appropriate containment locations based on:
 - i) estimates of the likely volume and distance of leaks from the pipelines; and
 - ii) site contours and topography, including creek crossing and pipeline corridors
2. Identify the most appropriate containment dam options for each of the containment locations including by:
 - i) determining the appropriate size of the containment dam(s); and
 - ii) assessing the feasibility and practicability of constructing appropriately sized containment dams in each containment location having regard to site factors such as site contours, available space and access constraints.

U2.2 Containment System Works

By 30 MARCH 2020, the licensee must complete all Containment System Works identified as part of the Ravensworth Ash Line Containment Report.

U3 Stormwater Pipeline Program

Note: The purpose of this condition is to require the licensee to investigate and determine the feasibility of upgrades to relevant areas of the Bayswater Power Station stormwater management system.

U3.1 Stormwater Pipeline Report

By 30 SEPTEMBER 2017, the licensee must provide a report to the EPA that investigates and determines the most feasible options to upgrade the stormwater management system. The report must include, but need not be limited to the following:

1. The replacement of relevant sections of the Stormwater Pipelines;
2. The re-lining of relevant sections of the Stormwater Pipelines; and
3. the decommissioning of any redundant elements of the Stormwater Pipelines

U3.2 Stormwater System Works

By 30 MARCH 2021, the licensee must complete all Stormwater System Works identified as part of the

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Bayswater Power Station Stormwater Pipeline Report.

U4 EIP - Lake Liddell Seepage Water Improvement Works

- U4.1 By 31 DECEMBER 2019, the licensee must complete all Lake Liddell Seepage Return Works as detailed in AGL Macquarie correspondence titled "Bayswater Power Station Environment Protection Licence 779 Variation Application" dated 31 July 2017.

U5 Pollution Study - Void 5 Water Loss Investigation

- U5.1 The licensee must provide a report to the EPA that investigates the water losses in Void 5. This report must include, but need not be limited to the following:
1. identify causes and/or mechanisms of water losses;
 2. develop a conceptual hydrogeological model;
 3. undertake a review of the environmental impact of the water losses including assessment of impacts on groundwater quality, pollutant loads and the receiving environment; and
 4. undertake an assessment of options to manage and minimise water losses and mitigate impacts to receiving environment.

A report that addresses the above must be provided electronically to hunter.region@epa.nsw.gov.au or by post to the EPA Regional Manager - Hunter, PO Box 488G Newcastle NSW 2300 by no later than 5pm on the 31 DECEMBER 2018.

9 Special Conditions

E1 Sewage effluent from Liddell Power Station

- E1.1 Sewage effluent can be received at the premises from the Liddell Power Station, for treatment and disposal at the premises, when the Liddell Power Station sewage treatment plant and/or its reticulation system is undergoing maintenance or repairs.

E2 Hunter River Salinity Trading Scheme

- E2.1 This licence authorises the discharge of saline water into the Hunter River Catchment from an authorised discharge point (or points), in accordance with the *Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002*.
- E2.2 For the purposes of Clauses 23 and 29 of the Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002 the licensee must apply the conversion factor of 0.6.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Grahame Clarke

Environment Protection Authority

(By Delegation)

Date of this edition: 20-April-2000

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End Notes

- 1 Licence varied by notice V/M upgrade, issued on 07-Jul-2000, which came into effect on 07-Jul-2000.
- 2 Licence varied by notice 1002313, issued on 09-Nov-2000, which came into effect on 04-Dec-2000.
- 3 Licence varied by notice 1003163, issued on 06-Dec-2000, which came into effect on 31-Dec-2000.
- 4 Licence varied by 010623, issued on 14-Jul-2000, which came into effect on 08-Aug-2000.
- 5 Condition HRSTS Dis Note varied by notice issued on <issue date> which came into effect on <effective date>
- 6 Licence varied by notice 1013308, issued on 07-Dec-2001, which came into effect on 01-Jan-2002.
- 7 Licence varied by notice 1016493, issued on 22-Dec-2003, which came into effect on 16-Jan-2004.
- 8 Licence varied by notice 1046433, issued on 18-May-2005, which came into effect on 19-May-2005.
- 9 Licence varied by notice 1049911, issued on 18-Jul-2005, which came into effect on 12-Aug-2005.
- 10 Licence varied by notice 1050842, issued on 22-Feb-2006, which came into effect on 08-Mar-2006.
- 11 Licence varied by notice 1066631, issued on 06-Nov-2006, which came into effect on 06-Nov-2006.
- 12 Licence varied by notice 1073184, issued on 25-May-2007, which came into effect on 25-May-2007.
- 13 Licence varied by notice 1075562, issued on 12-Sep-2007, which came into effect on 12-Sep-2007.
- 14 Licence varied by notice 1084432, issued on 09-Apr-2008, which came into effect on 09-Apr-2008.
- 15 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 16 Licence varied by notice 1093671, issued on 01-Dec-2008, which came into effect on 01-Dec-2008.
- 17 Licence varied by notice 1503268 issued on 27-Jul-2012
- 18 Licence varied by notice 1515755 issued on 20-Sep-2013
- 19 Licence varied by notice 1519097 issued on 31-Jan-2014

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20	Licence transferred through application 1524624 approved on 29-Aug-2014 , which came into effect on 02-Sep-2014
21	Licence varied by notice 1535045 issued on 17-Mar-2016
22	Licence varied by notice 1548850 issued on 28-Feb-2017
23	Licence varied by notice 1555659 issued on 07-Sep-2017