

Environment Protection Licence

Licence - 766



BMCS submits that EPL766 should be amended according to additional text in RED. Where existing text is edited with ~~strike through~~, BMCS submits that this text should be removed.

Licence Details	
Number:	766
Anniversary Date:	01-January

Licensee
DELTA ELECTRICITY LOCKED BAG 1 PORTLAND NSW 2847

Premises
WALLERAWANG POWER STATION 1 MAIN STREET WALLERAWANG NSW 2845

Scheduled Activity
Electricity Generation

Fee Based Activity	Scale
Generation of electrical power from coal	> 4000 Gwh generated

Region
North West - Bathurst Lvl 2, 203-209 Russell Street BATHURST NSW 2795 Phone: (02) 6332 7600 Fax: (02) 6332 7630 PO Box 1388 BATHURST NSW 2795

Comment [CB1]: BMCS submits that a maximum generating capacity should be identified and named in the licence

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Comment [CB2]: BMCS notes that this Contents Page does not reflect the changes contained within this document.

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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); and
- 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:

DELTA ELECTRICITY
LOCKED BAG 1
PORTLAND NSW 2847

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
Electricity Generation	Generation of electrical power from coal	> 4000 Gwh generated

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
<p>WALLERAWANG POWER STATION</p> <p>1 MAIN STREET</p> <p>WALLERAWANG</p> <p>NSW 2845</p> <p>LOT 1 DP 213770, LOT 2 DP 213770, LOT 17 DP 262515, LOT 1 DP 371068, LOT C DP 394440, LOT D DP 394440, LOT E DP 394440, LOT 1 DP 443235, LOT 2 DP 537770, LOT 1 DP 568265, LOT 231 DP 622326, LOT 3 DP 778400, LOT 4 DP 778400, LOT 1 DP 790970, LOT 1 DP 790971, LOT 32 DP 827807, LOT 2 DP 829137, LOT 3 DP 829137, LOT 5 DP 829137, LOT 101 DP 829410, LOT 16 DP 855844, LOT 17 DP 855844, LOT 1 DP 1018958, LOT 2 DP 1018958, LOT 3 DP 1018958, LOT 4 DP 1018958, LOT 100 DP 1043966, LOT 92 DP 1043967, LOT 1 DP 1087684, LOT 4 DP 1087684, LOT 5 DP 1087684, LOT 171 DP 1131952, LOT 228 DP 1131953, LOT 1 DP 1131955, LOT 2 DP 1131955, LOT 1 DP 1131956, LOT 227 DP 1131957, LOT 171 DP 1131959</p>

A3 Other activities

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

Ancillary Activity
Chemical Storage Facilities
Coal Works
Crushing, Grinding or Separating Works
Energy recovery
Waste storage

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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:

- 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
- 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.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
13	Air emission monitoring Discharge to air	Air emission monitoring Discharge to air	Wallerawang Power Station Boiler 7, identified as "EPA ID 13" on a map provided to the EPA in a letter dated 18 March 2005 .
14	Air emissions monitoring Discharge to air	Air emissions monitoring Discharge to air	Wallerawang Power Station Boiler 8, identified as "EPA ID 14" on a map provided to the EPA in a letter dated 18 March 2005 .
15	Ambient air monitoring		Blackmans Flat location, identified as "EPA ID 15" on a map provided to the EPA in a letter dated 18 March 2005 .
16	Ambient air monitoring		Off Brays Lane Wallerawang location, identified as "EPA ID 16" on a map provided to the EPA in a letter dated 18 March 2005 .
17	Ambient air monitoring		Newnes Plateau location, identified as "EPA ID 17" on a map provided to the EPA in a letter dated 18 March 2005 .

P1.2 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.

P1.2.1 To avoid any doubt, "emergency discharge" means a discharge to water of effluent after plant or operating failure which results in effluent unable to be used, treated or stored in the usual way. Such an incident must follow standard procedures as outlined in R2 – Notification of environmental harm. Five or more emergency discharges per reporting year will trigger an investigation by OEHS into operating procedures, with results to be published on the OEHS website.

P1.3 The following utilisation areas referred to in the table below are identified in this licence for the

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purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

Water and land

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EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Volume monitoring Effluent quality monitoring Discharge to waters	Volume monitoring Effluent quality monitoring Discharge to waters	Discharge to Coxs River from Unit 7 cooling tower identified as "EPA ID 1" on a map provided to the EPA in a letter dated 18 March 2005. Effluent from Unit 7 cooling tower prior to discharge to Coxs River as identified as LDP1 on [map to be provided by the licensee]
3	Volume monitoring Effluent quality monitoring Discharge to waters	Volume monitoring Effluent quality monitoring Discharge to waters	Caustic injection plant discharge effluent prior to discharge to Coxs River, identified as "EPA ID 3" LDP3 on a map provided to the EPA in a letter dated 18 March 2005 to be provided by the licensee.
4	Volume monitoring Effluent quality monitoring Discharge to waters	Volume monitoring Effluent quality monitoring Discharge to waters	Discharge to Coxs River from Unit 7 & 8 cooling tower blowdown, identified as "EPA ID 4" on a map provided to the EPA in a letter dated 18 March 2005. Effluent from Unit 7 & 8 cooling tower blowdown prior to discharge to Cox's River, identified as LDP4 on a map to be provided by the licensee.
5	Discharge quality monitoring Discharge to waters	Discharge quality monitoring Discharge to waters	Overflow drain from southern retention basin prior to discharge to Coxs River, identified as "EPA ID 5" on a map provided to the EPA in a letter dated 18 March 2005 LDP5 on a map to be provided by the licensee.
7	Ambient water monitoring	Volume monitoring Water quality monitoring	Main Street Road Main Street Road Bridge upstream of all discharge points in the Wallerawang Power Station, identified as "EPA ID 7" on a map provided to the EPA in a letter dated 18 March 2005-LDP 7 on a map to be provided by the licensee
8	Ambient water monitoring	Volume monitoring Discharge quality monitoring Water quality monitoring Discharge to water	Railway Bridge downstream of points 1, 2, 3 & 5 at Wallerawang Power Station, identified as "EPA ID 8" on a map provided to the EPA in a letter dated 18 March 2005- LDP8 on a map to be provided by the licensee
18	Volume monitoring Discharge quality monitoring Discharge to water	Volume monitoring Discharge quality monitoring Discharge to waters	Combined overflow drains from the coal stockpile settling basins at Wallerawang Power Station prior to discharge to Coxs River, identified as "EPA ID 18" on a map provided to the EPA in a letter dated 18 March 2005- LDP 18 identified on a map to be provided by the licensee.
20	Volume monitoring Discharge quality monitoring Discharge to waters	Discharge to waters	Centennial-Springvale Water Transfer System bypass point east of Kerosene Vale ash dam. Identified as LDP20 identified on a map to be provided by the

Comment [CB3]: This discharge point needs to clearly state where the discharge is generated.

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21	Emergency discharge point Volume monitoring Discharge quality monitoring Discharge to waters	Emergency discharge point Discharge to waters
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Emergency discharge point just north of railway bridge and just upstream of ambient monitoring point LDP8. Identified as LDP21 on a map to be provided by the licencee.

Comment [CB4]: It is not clear where this discharge point is, or where the discharge is generated.

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.

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)	2012	4 000 000
	2013	3 000 000
	2014	2 000 000
	2015	1 000 000
	2016 onward	0
Selenium (Enclosed Water)	2012	5
	2013	4
	2014	3
	2015	2
	2016 onward	0
Sulfur Oxides (Air)		
Total suspended solids (Enclosed Water)	2012	20 000
	2013	15 000
	2014	10 000
	2015	5 000
	2016 onward	0

Comment [CB5]: BMCS submits that OEH should impose absolute load limits on all assessable air pollutants.

Comment [CB6]: These figures have been derived from past Annual Returns, and demonstrate a reasonable and feasible reduction over time.

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

L3 Concentration limits

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L3.1 For each monitoring/discharge point or utilisation area specified in the table(s) 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.

L3.1.1 To avoid any doubt, condition L3.1 specifies that for discharge points, the concentration limits apply to the effluent prior to discharge and *not* to the discharge in the river, in the mixing zone, downstream of the mixing zone or in any way after discharge. For monitoring points, the concentration limit applies to the ambient water in the Cox's River at that point.

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(s).

L3.4 Air Concentration Limits

POINT 13

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Sulfuric acid mist and sulfur trioxide (as SO ₃)	milligrams per cubic metre	100	Dry, 273 K, 101.3 kPa, 7% O ₂		

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Hydrogen chloride	milligrams per cubic metre	100	Dry, 273 K, 101.3 kPa, 7% O ₂
Chlorine	milligrams per cubic metre	200	Dry, 273 K, 101.3 kPa, 7% O ₂
Mercury	milligrams per cubic metre	1.0	Dry, 273 K, 101.3 kPa, 7% O ₂
Nitrogen Oxides	milligrams per cubic metre	1500	Dry, 273 K, 101.3 kPa, 7% O ₂
Solid Particles	milligrams per cubic metre	250	Dry, 273 K, 101.3 kPa, 7% O ₂
Total Fluoride	milligrams per cubic metre	50	Dry, 273 K, 101.3 kPa, 7% O ₂
Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	5.0	Dry, 273 K, 101.3 kPa, 7% O ₂
Cadmium	milligrams per cubic metre	1.0	Dry, 273 K, 101.3 kPa, 7% O ₂

POINT 14

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Sulfuric acid mist and sulfur trioxide (as SO ₃)	milligrams per cubic metre	100	Dry, 273 K, 101.3 kPa, 7% O ₂		
Cadmium	milligrams per cubic metre	1.0	Dry, 273 K, 101.3 kPa, 7% O ₂		
Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	5.0	Dry, 273 K, 101.3 kPa, 7% O ₂		
Total Fluoride	milligrams per cubic metre	50	Dry, 273 K, 101.3 kPa, 7% O ₂		
Solid Particles	milligrams per cubic metre	250	Dry, 273 K, 101.3 kPa, 7% O ₂		

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Chlorine	milligrams per cubic metre	200	Dry, 273 K, 101.3 kPa, 7% O ₂
Hydrogen chloride	milligrams per cubic metre	100	Dry, 273 K, 101.3 kPa, 7% O ₂
Nitrogen Oxides	milligrams per cubic metre	1500	Dry, 273 K, 101.3 kPa, 7% O ₂
Mercury	milligrams per cubic metre	1.0	Dry, 273 K, 101.3 kPa, 7% O ₂

L3.5 For the purpose of Clause 35 of the *Protection of the Environment Operations (Clean Air) Regulation 2010*:

- (a) the activity of electricity generation, and
 (b) the Wallerawang Power Station Boiler 7 and Boiler 8, as identified as "EPA ID 13" and "EPA ID 14" on a map provided to the EPA in a letter dated 18 March 2005,

are taken to belong to Group 2.

Note: This condition will expire 5 years after the date on which the licensee was notified of the imposition of the condition.

L3.6 Water and/or Land Concentration Limits

Comment [CB7]: Tables labeled Point 1, Point 3, Point 4, Point 5, Point 18, Point 20 and Point 21 have been removed and replaced with the following seven tables.

LDP 1

Pollutant	Unit Measure	2012	2013	2014	2015	2016
		100 percentile concentration limit	100 percentile concentration limit	100 percentile concentration limit	100 percentile concentration limit	100 percentile concentration limit
pH	pH	6.5-8	6.5-8	6.5-8	6.5-8	6.5-8
TSS	mg/L	20	15	10	5	0
Turbidity	Nephelometric turbidity units	20	15	10	5	0
EC	µs/cm	1750	800	350	<350	0
Selenium	mg/L	<0.001	<0.001	<0.001	<0.001	0
Sulfate	mg/L	1000	800	600	400	0
Aluminium	µg/L	250	100	55	<55	0
Arsenic	µg/L	<24	<24	<24	<24	0
Boron	µg/L	<370	<370	<370	<370	0

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Copper	µg/L	50	25	1.4	<1.4	0
Fluoride	µg/L	1500	1500	1500	<1500	0
Nickel	µg/L	30	20	11	<11	0
Zinc	µg/L	30	20	8	<8	0
Metaflex EP total dithiocarbamates ingredients and derivatives	mg/L					

Comment [CB8]: BMCS submits that EPA should impose a reducing concentration limit for this pollutant

LDP 3

Pollutant	Unit of Measure	2012 100 percentile concentration limit	2013 100 percentile concentration limit	2014 100 percentile concentration limit	2015 100 percentile concentration limit	2016 100 percentile concentration limit
pH	pH	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5
Sulfate	mg/L	1000	800	600	400	0
TSS	mg/L	20	15	10	5	0
Turbidity	Nephelometric turbidity units	20	15	10	5	0

LDP 4

Pollutant	Unit of Measure	2012 100 percentile concentration limit	2013 100 percentile concentration limit	2014 100 percentile concentration limit	2015 100 percentile concentration limit	2016 100 percentile concentration limit
pH	pH	6.5-8	6.5-8	6.5-8	6.5-8	6.5-8
TSS	mg/L	20	15	10	5	0
Turbidity	Nephelometric turbidity units	20	15	10	5	0

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EC	µs/cm	1750	800	350	<350	0
Sulfate	mg/L	1000	800	600	400	0
Aluminium	µg/L	250	100	55	<55	0
Arsenic	µg/L	<24	<24	<24	<24	0
Boron	µg/L	<370	<370	<370	<370	0
Copper	µg/L	50	25	1.4	<1.4	0
Fluoride	µg/L	1500	1500	1500	<1500	0
Nickel	µg/L	30	20	11	<11	0
Zinc	µg/L	30	20	8	<8	0
Metaflex EP total dithiocarbamates ingredients and derivatives	mg/L					

Comment [CB9]: BMCS submits that EPA should impose a reducing concentration limit for this pollutant

LDP 5

Pollutant	Unit Measure of	2012	2013	2014	2015	2016
		100 percentile concentration limit	100 percentile concentration limit	100 percentile concentration limit	100 percentile concentration limit	100 percentile concentration limit
pH	pH	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5
Oil and grease	mg/L	5	4	3	2	0
TSS	mg/L	20	15	10	5	0
Turbidity	Nephelometric turbidity units	20	15	10	5	0

LDP 18

Pollutant	Unit Measure of	2012	2013	2014	2015	2016
		100 percentile concentration limit	100 percentile concentration limit	100 percentile concentration limit	100 percentile concentration limit	100 percentile concentration limit
pH	pH	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5
Oil and grease	mg/L	5	4	3	2	0
TSS	mg/L	20	15	10	5	0
Turbidity	Nephelometric turbidity units	20	15	10	5	0

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LDP 20

Pollutant	Unit of Measure	2012 100 percentile concentration limit	2013 100 percentile concentration limit	2014 100 percentile concentration limit	2015 100 percentile concentration limit	2016 100 percentile concentration limit
pH	pH	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5
Oil and grease	mg/L	5	4	3	2	0
TSS	mg/L	20	15	10	5	0
Turbidity	Nephelometric turbidity units	20	15	10	5	0

LDP 21

Pollutant	Unit of Measure	2012 100 percentile concentration limit	2013 100 percentile concentration limit	2014 100 percentile concentration limit	2015 100 percentile concentration limit	2016 100 percentile concentration limit
pH	pH	6.5-8	6.5-8	6.5-8	6.5-8	6.5-8
TSS	mg/L	20	15	10	5	0
Turbidity	Nephelometric turbidity units	20	15	10	5	0
EC	µs/cm	1750	800	350	<350	0
Sulfate	mg/L	1000	800	600	400	0
Aluminium	µg/L	250	100	55	<55	0
Arsenic	µg/L	<24	<24	<24	<24	0
Boron	µg/L	<370	<370	<370	<370	0
Copper	µg/L	50	25	1.4	<1.4	0
Fluoride	µg/L	1500	1500	1500	<1500	0
Nickel	µg/L	30	20	11	<11	0
Zinc	µg/L	30	20	8	<8	0

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L3.7 Results from monitoring carried out in accordance with conditions M2 and M3 can be used to determine compliance with the 100% concentration limits specified in condition L3.

L3.8 The concentration of an impurity contained in the solid alternative fuel must not exceed the concentration specified for that impurity in the table below:

Impurity	Units of measure	100 percentile Concentration Limit
Type 1 and Type 2 substances in aggregate	milligrams per kilograms	350

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	210 000 105 000
3	kilolitres per week	20 000
4	kilolitres per day week	105 000
5	kilolitres per week	20 000
20	kilolitres per day week	30000 20 000
21	kilolitres per week emergency discharge	405000 <100 000

L4.2 Notwithstanding the volume limits specified in condition L4.1, the combined volume discharged from ~~point(s) 1 and 4~~ all 6 discharge points shall not exceed 210 000 kL per week.

~~L4.3 The volume/mass limits for point(s) 1 and 4 specified in condition L4.1 apply for dry weather conditions only.~~

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L5 Waste

- L5.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.
- L5.2 Only the following types of waste may be disposed of at the premises:
- a) Ash
 - b) Asbestos
 - c) Mill pyrites
 - d) Demineralisation and polisher plant effluents
 - e) Chemical clean solutions
 - f) Cooling tower sediments
 - g) Ion exchange resins
 - h) Fabric filter bags
 - i) Brine conditioned fly ash
 - j) Biomass co-firing ash
 - k) Settling pond sediments
 - l) Oil and grit trap sediments
- L5.3 The wastes listed in condition L5.2 must only be disposed of to the Kerosene Vale Ash Repository and Sawyers Swamp Creek Ash Dam at Wallerawang Power Station except asbestos which may only be disposed of at the approved asbestos burial site.

L6 Noise limits

- L6.1 Operational noise from the Kerosene Vale Ash Repository area must not exceed:
- 40dB(A) LAeq(15 minute) , at the nearest most affected noise sensitive location.
- Note: LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.
- L6.2 To determine compliance with condition(s) L6.1 noise must be measured at, or computed for, the nearest affected noise sensitive locations (such as a residence, school or hospital). A modifying factor correction must be applied for tonal, impulsive or intermittent noise in accordance with the "Environmental Noise Management - NSW Industrial Noise Policy (January 2000)".
- L6.3 The noise emission limits identified in this licence apply under the following meteorological conditions:
- a) wind speeds up to 3 m/s at 10 metres height above ground; and/or
 - b) temperature inversion conditions of up to 30C/100m and source to receiver gradient winds of up to 2 m/s at 10 metres height above ground.

Note: The noise emission limits identified in this licence do not apply at a noise sensitive location, where

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the licensee and the affected noise sensitive location have reached a negotiated agreement in regards to noise, and a copy of that agreement has been provided to the Department of Environment, Climate Change and Water.

L7 Hours of operation

L7.1 Operational activities associated with the Kerosene Vale Ash Repository must only be carried out between the hours of 0700 and 2200 Monday to Sunday.

L7.2 Operational activities at the Kerosene Vale Ash Repository outside the hours stipulated by condition L7.1 are only permitted in the following situations;

- a) for the delivery of material, if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered.
- b) Where it is required to avoid the loss of lives, property and/or to prevent environmental harm,
- c) Where there is insufficient ash storage capacity at the Wallerawang Power Station outside the licence operating hours due to:
 - i) a breakdown of plant and/or equipment, including ash haulage trucks,
 - ii) a direction given to the licensee from the National Electricity Market Management Company under the National Electricity Rules to maintain, increase, or be available to increase power generation for system security.
- d) In such circumstances, prior notification must be provided to the EPA and affected residents as soon as possible or within a reasonable period in the case of emergency.

L8 Potentially offensive odour

L8.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

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.

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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.

O3 Dust

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

O4 Waste management

- O4.1 The licensee may only dispose of asbestos that has been generated on-site, and disposal of asbestos must be undertaken in accordance with Clause 42 of the Protection of the Environment Operations (Waste) Regulation 2005. Any requirements relating to off site disposal specified under Clause 42, also apply to on site disposal.

Note: The requirement under section 4(a) of Clause 42 has been met in that Lithgow City Council has confirmed that disposal of asbestos within the licensed premises is permissible.

- O4.2 The asbestos disposal area(s) must be clearly delineated on a map and reported to Lithgow City Council so as to prevent incompatible use of this land in future.

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

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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 13,14

Pollutant	Units of measure	Frequency	Sampling Method
Cadmium	milligrams per cubic metre	Yearly	TM-12
Carbon dioxide	percent	Yearly	TM-24
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	Quarterly	TM-23
Hydrogen chloride	milligrams per cubic metre	Yearly	TM-7 & TM-8
Mercury	milligrams per cubic metre	Yearly	TM-12
Moisture content	percent	Quarterly	TM-22
Molecular weight of stack gases	grams per gram mole	Quarterly	TM-23
Nitrogen Oxides	grams per cubic metre	Quarterly	Special Method 2
Oxygen (O ₂)	percent	Quarterly	CEM-3
Solid Particles	milligrams per cubic metre	Quarterly	TM-15
Sulfuric acid mist and sulfur trioxide (as SO ₃)	milligrams per cubic metre	Yearly	TM-3
Sulphur dioxide	milligrams per cubic metre	Quarterly	TM-4
Temperature	degrees Celsius	Quarterly	TM-2
Total Fluoride	milligrams per cubic metre	Yearly	TM-9
Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Yearly	TM-12, TM-13 & TM-14
Velocity	metres per second	Quarterly	TM-2
Volumetric flowrate	cubic metres per second	Quarterly	TM-2

POINT 15,16

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

POINT 17

Pollutant	Units of measure	Frequency	Sampling Method
Nitrogen dioxide	parts per hundred million	Monthly	Special Method 1
Sulphur dioxide	parts per hundred million	Monthly	Special Method 1

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M2.3 Water and/ or Land Monitoring Requirements

LDP 1, 3, 4, 5, 7, 8, 18, 20, 21

Comment [CB10]: Tables labeled as Point 1, Point 3, Point 4, Point 5, Point 7,8, Point 18, Point 20 and Point 21 have been removed and replaced with this one table.

Pollutant	Units of measure	Frequency	Sampling method
pH	pH	weekly	Representative sample
TSS	mg/L	Weekly	Representative sample
Turbidity	Nephelometric turbidity units	Weekly	Representative sample
Temperature	Degrees celcius	Weekly	Representative sample
EC	µs/cm	Weekly	Representative sample
Sulfate	mg/L	Weekly	Representative sample
Aluminium	µg/L	Weekly	Representative sample
Antimony	mg/L	Weekly	Representative sample
Arsenic	µg/L	Weekly	Representative sample
Boron	µg/L	Weekly	Representative sample
Cadmium	mg/L	Weekly	Representative sample
Chlorine	mg/L	Weekly	Representative sample
Cobolt	mg/L	Weekly	Representative sample
Copper	µg/L	Weekly	Representative sample
Cromium (total)	mg/L	Weekly	Representative sample
Fluoride	µg/L	Weekly	Representative sample
Filterable iron	µg/L	Weekly	Representative sample
Filterable manganese	µg/L	Weekly	Representative sample
Lead	mg/L	Weekly	Representative sample
Mercury	µg/L	Weekly	Representative sample
Nickel	mg/L	Weekly	Representative sample
Tin	mg/L	Weekly	Representative sample
Vanadium	mg/L	Weekly	Representative sample
Zinc	µg/L	Weekly	Representative sample
Oil and grease	mg/L	Weekly	Representative sample
Metaflex EP total dithiocarbamates ingredients and derivatives	mg/L	Weekly	Representative sample

M2.4 A To avoid any doubt, the requirement to monitor pollutants specified in the table directly above, does not authorize the discharge of those pollutants.

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M2.4 For the purposes of the tables above;

Special Method 1 means the CSIRO diffusion tube method.

Special Method 2 means sampling in accordance with TM-11 and include recording of the respective boiler MW Load at time of sampling, to enable reporting under condition R1.10.

For Point 1 and 4 above, where the licensee is utilising Metaflex EP in the cooling water system, the licensee must undertake the additional monitoring specified under Special Condition E2 of this licence.

M2.5 For the purposes of the tables above, a requirement to monitor for arsenic (points 4 and 20) means a requirement to monitor for, and report, arsenic as the species 'arsenic (III)' and 'arsenic (V)'.

M2.6 For the purposes of the tables above;

For ambient air monitoring of pollutants, the recording of results and reporting for Annual Return purposes shall include "averaging periods" as stipulated in the National Environmental Protection (Ambient Air Quality) Measure (eg: Nitrogen Dioxide averaging periods of one hour and one year, and Sulphur Dioxide averaging periods of one hour, one day and one year).

M2.7 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 15 of the Protection of the Environment Operations (General) Regulation 2009. 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.environment.nsw.gov.au>.

M2.8 Monitoring at points 13 and 14 must be reported using the references bases set out in the tables in condition L3.4 in the column headed "Reference conditions".

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:

- a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- b) 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
- c) 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 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".

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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

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the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Recording of pollution complaints

- M4.1 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.
- M4.2 The record must include details of the following:
- a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.
- M4.3 The record must be produced to any authorised officer of the EPA who asks to see them.
- M4.4 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5 Telephone complaints line

- M5.1 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.
- M5.2 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.
- M5.3 The preceding two conditions do not apply until 3 months after:
- a) the date of the issue of this licence or
 - b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M6 Requirement to monitor volume or mass

- M6.1 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.

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POINT 1

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

POINT 3

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	kilolitres per day	Flow meter and continuous logger

POINT 4

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	kilolitres per day	Flow meter and continuous logger

POINT 5

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

POINT 20

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	By Calculation (volume flow rate or pump capacity multiplied by operating time)

POINT 21

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

M7 Other monitoring and recording conditions

M7.1 The licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1 contained in any solid alternative fuel, and the Calorific Value (Mj/kg) of the fuel. The licensee must use the units of measure, and sample at the frequency specified opposite in the other columns:

Parameter	Unit of measure	Frequency
Antimony (Sb)	mg/kg	Per batch, as processed
Arsenic (As)	mg/kg	Per batch, as processed
Beryllium (Be)	mg/kg	Per batch, as processed
Cadmium (Cd)	mg/kg	Per batch, as processed
Chlorine (Cl)	%	Per batch, as processed
Chromium (Cr) total	mg/kg	Per batch, as processed
Cobalt (Co)	mg/kg	Per batch, as processed

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Copper (Cu)	mg/kg	Per batch, as processed
Flourine (F)	%	Per batch, as processed
Lead (Pb)	mg/kg	Per batch, as processed
Manganese (Mn)	mg/kg	Per batch, as processed
Mercury (Hg)	mg/kg	Per batch, as processed
Nickel (Ni)	mg/kg	Per batch, as processed
Selenium (Se)	mg/kg	Per batch, as processed
Sulfur (S)	%	Per batch, as processed
Tin (Sn)	mg/kg	Per batch, as processed
Vanadium (V)	mg/kg	Per batch, as processed

M7.2 To determine compliance with condition L6.1, monitoring of noise from the Kerosene Vale Ash Repository must be carried out at locations identified by and in accordance with, the Kerosene Vale Stage 2 Ash Repository Operational Environmental Management Plan 2008.

6 Trigger Levels

T1 Trigger levels

T1.1 For the purpose of this licence, a “trigger point” is both the 100 percentile concentration limit listed in L3.6 and the load limit listed in L2.2.

T1.2 If concentrations of any of the pollutants in M2.3 exceed the 100 percentile concentration in L3.6, this “triggers” a requirement for the licensee to:

- Identify the source of the exceedance and immediately stop the discharge until effluent concentrations are within the limits set by L3.6;
- Report the breach of concentration limit immediately to OEH;

T1.3 If concentrations of any of the pollutants in M2.3 that are *not* listed in L3.6 are detected above zero (0), this “triggers” a requirement for the licensee to:

- Identify the sources of the exceedance and,
 - If the source of the discharge is a licensee Licenced Discharge Point,
 - immediately stop the discharge until effluent concentrations are within the limits set by L3.6;
 - Report the breach of concentration limit immediately to OEH
 - If the source of the discharge is *not* a licensee Licenced Discharge Point,
 - Demonstrate to the satisfaction of EPA and by appropriate upstream and downstream monitoring that there is no demonstrable change in pollutant concentration due to licensee operations.

T1.4 If loads of any of the pollutants listed in L2.2 exceed the load limit specified in L2.2, this “triggers” a requirement for the licensee to:

- Identify the source of the exceedance and immediately stop the discharge until effluent concentrations are within the limits set by L3.6;
- Report the breach of concentration limit immediately to OEH;

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67 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:

- a) a Statement of Compliance; and
- b) a Monitoring and Complaints Summary.

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

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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 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 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.
- R1.7 Within the Annual Return, the Statement 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.
- R1.8 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.
- R1.9 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 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.
- R1.10 The Annual Return must include the following information:
- a) To validate the SSEF-PEMS for Nitrogen oxides approved by the EPA on 27 February 2008, the licensee must provide a report that plots the quarterly Nitrogen oxide concentration sampling results required by condition M2.1, against the historical Nitrogen oxide CEMS data curves for boiler units 7 and 8 at Wallerawang Power Station.
 - b) The licensee must report any exceedance of any discharge limit, standard, or concentration set by a condition of this licence. The report must include the sample results of the exceedance and indicate the name of the testing laboratory, parameter(s) monitored, the limit, standard, or concentration exceeded, the date of any exceedance and the result of any analysis.

R2 Notification of environmental harm and licence exceedances

Note:

- R2.1 The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.
- R2.2 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.3 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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R2.4 The licensee or its employees must notify the EPA of licence exceedences within 30 days after the weekly monitoring event.

R2.5 Notifications must be in writing

R2.6 The licensee or its employees must publish written notification of any licence exceedence within 30 days after the weekly monitoring event on its company website.

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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.

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.
- 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.

G2 Signage

- G2.1 The location of EPA point number(s) 1 to 19 must be clearly marked by signs that indicate the point identification number used in this licence and be located as close as practical to the point.

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8 Pollution Studies and Reduction Programs

U1 Upgrade Discharge Emission Controls Unit 8

- U1.1 By 30 June 2015, install and commission a fabric filter collection plant (baghouse 8) to replace the existing electrostatic precipitators at Wallerawang Power Station Boiler 8, identified as "EPA ID 14" on a map provided to the EPA in a letter dated 18 March 2005. Baghouse 8 must be capable of filtering emissions so that the end of stack discharge from the boiler does not exceed the standard of concentration for Group 6 plant used for the purpose of electricity generation in Schedule 3 to the *Protection of the Environment Operations (Clean Air) Regulation 2010*.

U2 Upgrade Discharge Emission Controls Unit 7

- U2.1 By 30 June 2017, install and commission a fabric filter collection plant (Baghouse 7) to replace the existing electrostatic precipitators at Wallerawang Power Station Boiler 7, identified as "EPA ID 13" on a map provided to the EPA in a letter dated 18 March 2005. Baghouse 7 must be capable of filtering emissions so that the end of stack discharge from the boiler does not exceed the standard of concentration for Group 6 plant used for the purpose of electricity generation in Schedule 3 to the *Protection of the Environment Operations (Clean Air) Regulation 2010*.

U3 Water Treatment Works

- U3.1 A By 15 December 2012 submit to EPA for approval a detailed plan of water treatment works to treat the full cooling tower blowdown from Wallerawang Power Station, including a decommission plan for Torturous Water Course.

B By 15 December 2015, install and commission a program of works for the full treatment of cooling tower blowdown water from Wallerawang Power Station under normal operations.

C By 15 December 2015 decommission Torturous Water Course, and submit to EPA for approval a rehabilitation plan for the Torturous Water Course

D By 15 December 2015 apply for an amendment to EPL766 for new emergency discharge conditions in the instance of the new water treatment works failing, or needing repair or maintenance.

E By 15 December 2016 commence rehabilitation of Torturous Water Course

- U3.2 A By 15 December 2012 submit to EPA for approval a detailed plan of water treatment works to treat effluent that will be discharged via any Licenced Discharge Point to the standards specified in L3.6 and L2.2.

B By 15 December 2013 install and commission a program of works to treat effluent to be discharged via any Licenced Discharge Point to the standards specified in L3.6 and L2.2

- U3.3 By 15 December 2015 submit to EPA for approval a report detailing the works undertaken in U3.1 and U3.2, including water quality monitoring results for 2015 and anticipated water quality monitoring results for the remainder of the operating life of Wallerawang Power Station.

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9 Special Conditions

E1 Solid alternative fuel

E1.1 For the purposes of this Licence, solid alternative fuel means timber products that are either:-

- a) Biomass that is sustainably harvested as defined in "Greenhouse Gas Emissions from Electricity Supplied in NSW: Emissions Workbook, October 2000, Ministry of Energy and Utilities";
- or
- b) Recycled timber products obtained from manufacturing, construction and demolition sources that comply with the alternate fuel air impurity specification for hazardous substances under condition L3.8; or
- c) In accordance with Regulation 8 (Special requirements – wood wastes) of Division 2.2 (Eligible renewable energy sources) in Part 2 of the Renewable Energy (Electricity) Regulations 2001 and Renewable Energy (Electricity) Act 2000.

E1.2 Solid alternative fuel may only be fed to the boiler during coal firing.

E1.3 Solid alternative fuel may only be fed to the boiler at a feed rate of less than or equal to 5 % weight of the coal feed rate.

E2 Use of Metaflex EP Corrosion Inhibitor

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E2.1 At all times when the licensee is adding Metaflex EP corrosion inhibitor product to the power station cooling water system;

1. the utilisation of Metaflex EP must be undertaken in the prescribed manner that facilitates the removal of excess Metaflex EP product (as total dithiocarbamates) in accordance with the procedures specified by the manufacturer.
2. for licensed discharge/monitoring point 1 and 4 , the concentration of the pollutant discharged at the point must not exceed the concentration limits specified for that pollutant in the table below:

Pollutant	Unit of Measure	100 percentile concentration limit
Metaflex EP total dithiocarbamates ingredients and derivatives	milligrams per litre	0.02

E2.2 For licensed discharge/monitoring points 1 and 4, the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1 of the table below. The licensee must use the sampling method, unit of measure, and sample at the frequency specified in the other columns of the table:

Pollutant	Unit of Measure	Frequency	Sampling Method
Metaflex EP total dithiocarbamates ingredients	mg/L	Weekly during discharge	Representative sample

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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 Jim Clarence

Environment Protection Authority

(By Delegation)

Date of this edition: 29-September-2000

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End Notes

- 1 Licence varied by notice 1002514, issued on 15-Mar-2001, which came into effect on 30-Mar-2001.
- 2 Licence varied by notice 1006913, issued on 25-May-2001, which came into effect on 19-Jun-2001.
- 3 Licence varied by notice 1011875, issued on 12-Nov-2001, which came into effect on 12-Nov-2001.
- 4 Licence varied by notice 1014355, issued on 20-Mar-2002, which came into effect on 22-Mar-2002.
- 5 Licence varied by notice 1033370, issued on 13-May-2005, which came into effect on 07-Jun-2005.
- 6 Licence varied by notice 1053427, issued on 12-Dec-2005, which came into effect on 06-Jan-2006.
- 7 Licence varied by notice 1056197, issued on 04-Apr-2006, which came into effect on 04-Apr-2006.
- 8 Licence varied by notice 1060314, issued on 21-Jul-2006, which came into effect on 21-Jul-2006.
- 9 Licence varied by notice 1067372, issued on 22-Dec-2006, which came into effect on 22-Dec-2006.
- 10 Licence varied by notice 1077138, issued on 28-Sep-2007, which came into effect on 28-Sep-2007.
- 11 Licence varied by notice 1080218, issued on 16-Nov-2007, which came into effect on 16-Nov-2007.
- 12 Licence varied by notice 1083863, issued on 30-Jul-2008, which came into effect on 30-Jul-2008.
- 13 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 14 Licence varied by notice 1095281, issued on 01-Jan-2009, which came into effect on 01-Jan-2009.
- 15 Licence varied by notice 1099554, issued on 24-Apr-2009, which came into effect on 24-Apr-2009.
- 16 Licence varied by notice 1102924, issued on 27-Jul-2009, which came into effect on 27-Jul-2009.
- 17 Licence varied by notice 1104582, issued on 01-Feb-2010, which came into effect on 01-Feb-2010.
- 18 Licence varied by notice 1112729, issued on 20-Apr-2010, which came into effect on 20-Apr-2010.

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| 19 | Licence varied by notice 1113579, issued on 05-May-2010, which came into effect on 05-May-2010. |
| 20 | Licence varied by notice 1114466, issued on 18-Jun-2010, which came into effect on 18-Jun-2010. |
| 21 | Licence varied by notice 1119263, issued on 16-Sep-2010, which came into effect on 16-Sep-2010. |
| 22 | Licence varied by notice 1125896, issued on 23-Jun-2011, which came into effect on 23-Jun-2011. |
| 23 | Licence varied by notice 1501292 issued on 14-Nov-2011 |
| 24 | Licence varied by notice 1502871 issued on 22-Nov-2011 |