Government of Western Australia
Department of Environment Regulation

Licence

Environmental Protection Act 1986, Part V

Licensee: APA DEWAP Pty Ltd

Licence: L7336/1998/10

Registered office: Level 11
20 Bridge Street
SYDNEY NSW 2000

ACN: 058 070 689

Premises address: Port Hedland Power Station
Lot 255 on Plan 192056 and part Lot 203 on Plan 220594
BOODARIE WA 6722 as depicted in Schedule 1

Issue date: 5 December 2013

Commencement date: 8 December 2013
Date of amendment: 09 April 2025

Expiry date: 7 December 2040

Prescribed premises category
Schedule 1 of the Environmental Protection Regulations 1987

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
52	Electric power generation: Premises (other than Premises within category 53 or an emergency or standby power generating plant) on which electrical power is generated using a fuel.	20 megawatts or more in aggregate (using natural gas) 10 megawatts or more in aggregate (using a fuel other than natural gas)	150 MWe

This licence is granted to the licence holder, subject to the attached conditions, on 09 April 2025, by:

Caron Goodbourn

Digitally signed by Caron Goodbourn
Date: 2025.04.09 12:31:16 +08'00'

MANAGER, PROCESS INDUSTRIES
an officer delegated under section 20
of the *Environmental Protection Act 1986*

Contents

Introduction

This Introduction is not part of the Licence conditions.

DWER's industry licensing role

The Department of Environment Regulation (DWER) is a Government Department for the State of Western Australia in the portfolio of the Minister for Environment. DWER's purpose is to protect and conserve the State's environment on behalf of the people of Western Australia.

DWER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DWER works with the business owners, community, consultants, industry and other representatives to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DWER also monitor and audit compliance with works approvals and licence conditions, take enforcement action as appropriate and develop and implement licensing and industry regulation policy.

Licence requirements

This licence is issued under Part V of the Act. Conditions contained with the licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link:
http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- Environmental Protection (Unauthorised Discharges) Regulations 2004 – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.

- Environmental Protection (Controlled Waste) Regulations 2004 - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.

- Environmental Protection (Noise) Regulations 1997 – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.

Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Licence fees
If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises. Operating without a licence is an offence under the Act.

Ministerial conditions
If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for the Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary
The Port Hedland power station comprises of:
 3 nominal 30 MW gas turbine generators with auxiliary diesel backup;
 2 nominal 30 MW single fuel gas turbine generators; and
 HV electrical switchyard and ancillary infrastructure.

Hydrocarbon contaminated wastewater is treated by gravity separation and the treated effluent is pumped to an on-site evaporation pond. Contaminated waste is collected and transported from the site by a licensed disposal contractor.

The licences and works approvals issued for the Premises since 15 December 2003 are:

Instrument log

Instrument	Issued	Description
L7336/1998/6	15 December 2003	Licence reissue
L7336/1998/7	8 December 2004	Licence reissue. Duration of Licence extended to 3 years
L7336/1998/8	7 December 2007	Licence reissue
L7336/1998/9	2 December 2010	Licence reissue
L7336/1998/10	5 December 2013	Licence reissue. Licence converted to REFIRE format
L7336/1998/10	29 April 2016	Licence expiry extended to 7 December 2025 in accordance with the *Notice of amendment and schedule of licences with amended expiry dates (2016).*
L7336/1998/10	17 March 2017	Licence amendment to decommission an existing Frame-6B gas turbine (TG 301) and replace it with a LM60000PF gas turbine generator with auxiliaries.
L7336/1998/10	09 April 2025	Department initiated amendment to update licence holder name and extend expiry date of licence by 10 years.

Severance
It is the intent of these Licence conditions that they must operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition must be severed and the remainder of these conditions must nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

END OF INTRODUCTION

Licence conditions

1 General

1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

'the Act' means the *Environmental Protection Act 1986;*

'annual period' means the inclusive period from 1 July until 30 June is the following year;

'Approved Algorithms' means the algorithms developed by APA DEWAP Pty Ltd for estimating stack emissions from the Frame 6 turbine and Rolls Royce Trent 60 turbine as listed in Table 1.1.1 below:

Table 1.1.1: Algorithm developed by APA DEWAP Pty Ltd for the frame 6 turbine

Gaseous Emissions - Frame 6 turbine	Algorithm[1,2,3]
NOx (mg/m^3 dry, 15% O_2, 0^0C, 1atm)	$(164.63+11.67P+0.71P^2)/(1.2+0.13P)$
CO (mg/m^3 dry, 0^0C, 1atm)	$16.10-1.10P+0.02P^2$

Note 1: P=power output $MWhr^{-1}$.
Note 2: Moisture assumed at 3%;
Note 3: Excess Oxygen calculated at O2% dry=19.8-0.13P (determined by measurement). Employed in the NOx algorithm for the purposes of estimating correct oxygen levels for associated power outputs to enable reporting at a 15% oxygen reference level.

'AS 4323.1' means the Australian Standard AS4323.1 *Stationary Source Emissions Method 1: Selection of sampling positions;*

'averaging period' means the time over which a limit or target is measured or a monitoring result is obtained;

'CEMS' means continuous emissions monitoring system;

'CEMS Code' means the current version of the Continuous Emission Monitoring System (CEMS) Code for Stationary Source Air Emissions, Department of Environment Regulation, Government of Western Australia;

'Code of practice for the storage and handling of dangerous goods' means the storage and handling of dangerous goods, code of practice, Department of Mines and Petroleum, Government of Western Australia;

'dangerous goods' has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007;

'dark smoke' means smoke which, when viewed from any point outside the premises boundary, at a distance of not less than 5 metres from its source, and compared with a chart known as the Australian Miniature Smoke Chart (AS 3543), would appear darker than shade one on that chart;

'Director' means Director, Environmental Regulation Division of the Department of Environment Regulation for and on behalf of the Chief Executive Officer as delegated under section 20 of the *Environmental Protection Act 1986;*

'Director' means Chief Executive Officer of the Department.

'submit to / notify the CEO' (or similar), means either:

Director General
Department administering the Environmental Protection Act 1986
Locked Bag 10 Joondalup DC WA 6919

or:

info@dwer.wa.gov.au

'environmentally hazardous material' means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm. Note: Environmentally hazardous materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines and Petroleum;

'fugitive emissions' means all emissions not arising from point sources identified in sections 2.2 and 2.5;

'Licence' means this Licence numbered L7336/1998/10 and issued under the *Environmental Protection Act 1986;*

'Licensee/licence holder' refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.

'MWe' means power output (electricity generated) in megawatts;

'NATA' means the National Association of Testing Authorities, Australia;

'NATA accredited' means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

'normal operating conditions' means any operation of a particular process (including abatement equipment) excluding start-up, shut-down and upset conditions, in relation to stack sampling or monitoring;

'NOx' means oxides of nitrogen;

'quarterly' means the 4 inclusive periods from 1 July to 30 September, 1 October to 31 December, 1 January to 31 March and in the following year, 1 April to 30 June;

'Schedule 1' means Schedule 1 of this Licence unless otherwise stated;

'Schedule 2' means Schedule 2 of this Licence unless otherwise stated;

'shut-down' means the period when plant or equipment is brought from normal operating conditions to inactivity;

'spot sample' means a discrete sample representative at the time and place at which the sample is taken;

'stack test' means a discrete set of samples taken over a representative period at normal operating conditions;

'start-up' means the period when plant or equipment is brought from inactivity to normal operating conditions;

'STP dry' means standard temperature and pressure (0^{o}Celsius and 101.325 kilopascals respectively), dry;

'USEPA' means United States (of America) Environmental Protection Agency;

'USEPA Method 7E' means the *Test Method 7E - Determination of Nitrogen Oxide Emissions from Stationary Sources;*

'USEPA Method 10' means the *Test Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources;* and

'usual working day' means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the current version of that standard.

1.1.4 Any reference to a Guideline or Code of Practice in the Licence means the current version of the Guideline or Code of Practice.

1.2 General conditions

1.2.1 Nothing in the Licence must be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:
(a) pollution;
(b) unreasonable emission;
(c) discharge of waste in circumstances likely to cause pollution; or
(d) being contrary to any written law.

1.2.2 The Licensee must operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.

1.2.3 The Licensee, except where storage is prescribed in section 1.3, must ensure that environmentally hazardous materials are stored in accordance with the code of practice for the storage and handling of dangerous goods.

1.2.4 The Licensee must immediately recover or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.5 The Licensee must:

(a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and

(b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.[1]

Note 1: The Environmental Protection (Unauthorised Discharges) Regulations 2004 make it an offence to discharge certain materials into the environment.

1.3 Premises operation

1.3.1 The Licensee must operate and maintain each turbine on the premises in accordance with the manufacturer's specifications to ensure minimal oxides of nitrogen is being discharged to the environment.

1.3.2 The Licensee must determine and record during normal operations, one hour averages for the concentration and cumulative quantity of oxides of nitrogen and carbon monoxide that has been discharged to the environment from the power station, using the Approved Algorithms, while operational turbines are being fired on gas.

1.3.3 The Licensee must operate and maintain an oily water treatment system to ensure:

(a) waste oil is effectively extracted from the wastewater and stored in impermeable holding tanks prior to being recycled or disposed of to an appropriately licensed facility;

(b) all wastewater discharged from the treatment system is directed to a lined or clay compacted evaporation pond within the premises; and

(c) the evaporation pond has at least 500mm freeboard maintained at all times.

1.3.4 The Licensee must ensure that all spillage of total petroleum hydrocarbons within the maintenance workshops, processing plant areas, the vicinity of the diesel generators, fuel loading or unloading areas and washdown bays are contained and directed to the oily water treatment system required by Condition 1.3.3.

2 Emissions

2.1 General

2.1.1 The Licensee must record and investigate the exceedance of any descriptive or numerical limit, and/or target in this section.

2.2 Point source emissions to air

2.2.1 The Licensee must ensure that where waste is emitted to air from the emission points in Table 2.2.1 and identified on the map of emission points in Schedule 1 if it is done so in accordance with the conditions of this licence.

Table 2.2.1: Point source emission points to air

Emission point reference	Emission Point	Source, including any abatement

A1- A3	Stack 1, 2, 3	Respective stacks of the three 30 MW each, gas turbine units with auxiliary diesel backup at Lot 255 on Plan 192056
A4-A5	Stack 4,5	Respective stacks of the two 30 MW each, single fuel gas turbine units at part Lot 203 on Plan 220594

2.2.2 The Licensee must not cause or allow point source emissions to air greater than the limits listed in Table 2.2.2.

Table 2.2.2: Point source emission limits to air

Emission point reference	Parameter	Limit (including units)[1]	Averaging period
A1-A5	NOx	350 mg/m^3	30 minute average

Note 1: All units are referenced to STP dry and to 15% O_2

2.2.3 The Licensee must ensure all emissions of dark smoke from any stack at the premises does not continue for more than 4 minutes in total over any one hour period.

2.2.4 The Licensee must ensure all emissions of dark smoke from any stack at the premises does not continue more than 20 minutes in total over any 24 hour period.

2.3 Point source emissions to surface water

There are no specified conditions relating to point source emissions to surface water in this section.

2.4 Point source emissions to groundwater

There are no specified conditions relating to point source emissions to groundwater in this section.

2.5 Emissions to land

2.5.1 The Licensee must not cause or allow discharge to the evaporation pond greater than limits listed in Table 2.5.1.

Table 2.5.1: Point source emission target to evaporation pond

Emission point reference	Emission point	Parameter	Target (including units)	Averaging period
W1	Oily water treatment system outlet prior to entering the evaporation pond	Total Petroleum Hydrocarbon	30mg/L	Spot sample

2.6 Fugitive emissions

There are no specified conditions relating to fugitive emissions in this section.

2.7 Odour

There are no specified conditions relating to odour in this section.

2.8 Noise

There are no specified conditions relating to noise in this section.

3 Monitoring

3.1 General monitoring

3.1.1 The licensee must ensure that all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured.

3.1.2 The Licensee must ensure that:
(a) quarterly monitoring is undertaken at least 45 days apart; and
(b) annual monitoring is undertaken at least 9 months apart.

3.1.3 The Licensee must record production or throughput data and any other process parameters relevant to any non-continuous or CEMS monitoring undertaken.

3.1.4 The Licensee must ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.

3.1.5 The Licensee must, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the Director accompanied with a report comprising details of any modifications to the methods.

3.2 Monitoring of point source emissions to air

3.2.1 The Licensee must undertake the monitoring in Table 3.2.1 according to the specifications in that table.

Table 3.2.1: Monitoring of point source emissions to air

Emission point reference	Parameter	Units[1, 3]	Frequency[2]	Method
A1-A5	NOx	g/s and mg/m^3	Annually	USEPA Method 7E
	CO	g/s and mg/m^3		USEPA Method 10

Note 1: All units are referenced to STP dry
Note 2: Monitoring must be undertaken to reflect normal operating conditions and any limits or conditions on inputs or production.
Note 3: All units are referenced to15% O_2

3.2.2 The Licensee must determine and record calculated stack emission rate data for SO_2 emissions, based on an annual distillate sample reading, when power generation is utilising diesel as a base fuel.

3.2.3 The Licensee must ensure that sampling required under Condition 3.2.1 of the Licence is undertaken at sampling locations in accordance with the AS 4323.1 or relevant part of the CEMS Code.

3.2.4 The Licensee must ensure that all non-continuous sampling and analysis undertaken pursuant to condition 3.2.1 is undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis.

3.3 Monitoring of point source emissions to surface water

There are no specified conditions relating to monitoring of point source emissions to surface water in this section.

3.4 Monitoring of point source emissions to groundwater

There are no specified conditions relating to monitoring of point source emissions to groundwater in this section.

3.5 Monitoring of emissions to land

3.5.1 The Licensee must undertake the monitoring in Table 3.5.1 according to the specifications in that table.

Table 3.5.1: Monitoring of emissions to land

Emission point reference	Parameter	Units	Frequency
W1	Total Petroleum Hydrocarbon	mg/L	Quarterly

3.6 Monitoring of inputs and outputs

There are no specified conditions relating to monitoring of inputs and outputs in this section.

3.7 Process monitoring

There are no specified conditions relating to process monitoring in this section.

3.8 Ambient environmental quality monitoring

There are no specified conditions relating to ambient environmental quality monitoring in this section.

3.9 Meteorological monitoring

There are no specified conditions relating to meteorological monitoring in this section.

4 Improvements

There are no specified improvement conditions in this section.

5 Information

5.1 Records

5.1.1 All information and records required by the Licence must:
(a) be legible;
(b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
(c) except for records listed in 5.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
(d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
(i) off-site environmental effects; or
(ii) matters which affect the condition of the land or waters.

5.1.2 The Licensee must ensure that:
(a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
(b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.

5.1.3 The Licensee must complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.

5.1.4 The Licensee must implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

5.2 Reporting

5.2.1 The Licensee must submit to the Director an Annual Environmental Report by 1 October each year. The report must contain the information listed in Table 5.2.1 in the format or form specified in that table.

Table 5.2.1: Annual environmental report

Condition or table (if relevant)	Parameter	Format or form[1]
-	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the year and any action taken	None specified
Table 2.2.2	Limit exceedance	None specified
Table 2.5.1	Target exceedances	None specified
Table 3.2.1	Calculated and measured NOx and CO emissions	AR1
3.2.2	SO_2 emissions based on annual distillate sample reading	AR1
Table 3.5.1	Monitoring Total Petroleum Hydrocarbon concentration discharged to evaporation ponds	None specified
5.1.3	Compliance reported in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).	AACR
5.1.4	Complaints summary	None specified

Note 1: Form in Schedule 2

5.2.2 The Licensee must ensure that the Annual Environmental Report also contains:
(a) any relevant process, production or operational data recorded under Condition 3.1.3;
(b) an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets; and
(c) a list of any original monitoring reports submitted to the Licensee from third parties for the annual period and make these reports available on request.

5.2.3 The Licensee must submit the information in Table 5.2.2 to the Director according to the specifications in that table.

Table 5.2.2: Non-annual reporting requirements

Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form[1]
Condition 1.3.2	NOx CO	Quarterly	28 calendar days	AR1

Note 1: Forms are in Schedule 2

5.3 Notification

5.3.1 The Licensee must ensure that the parameters listed in Table 5.3.1 are notified to the Director in accordance with the notification requirements of the table.

Table 5.3.1: Notification requirements

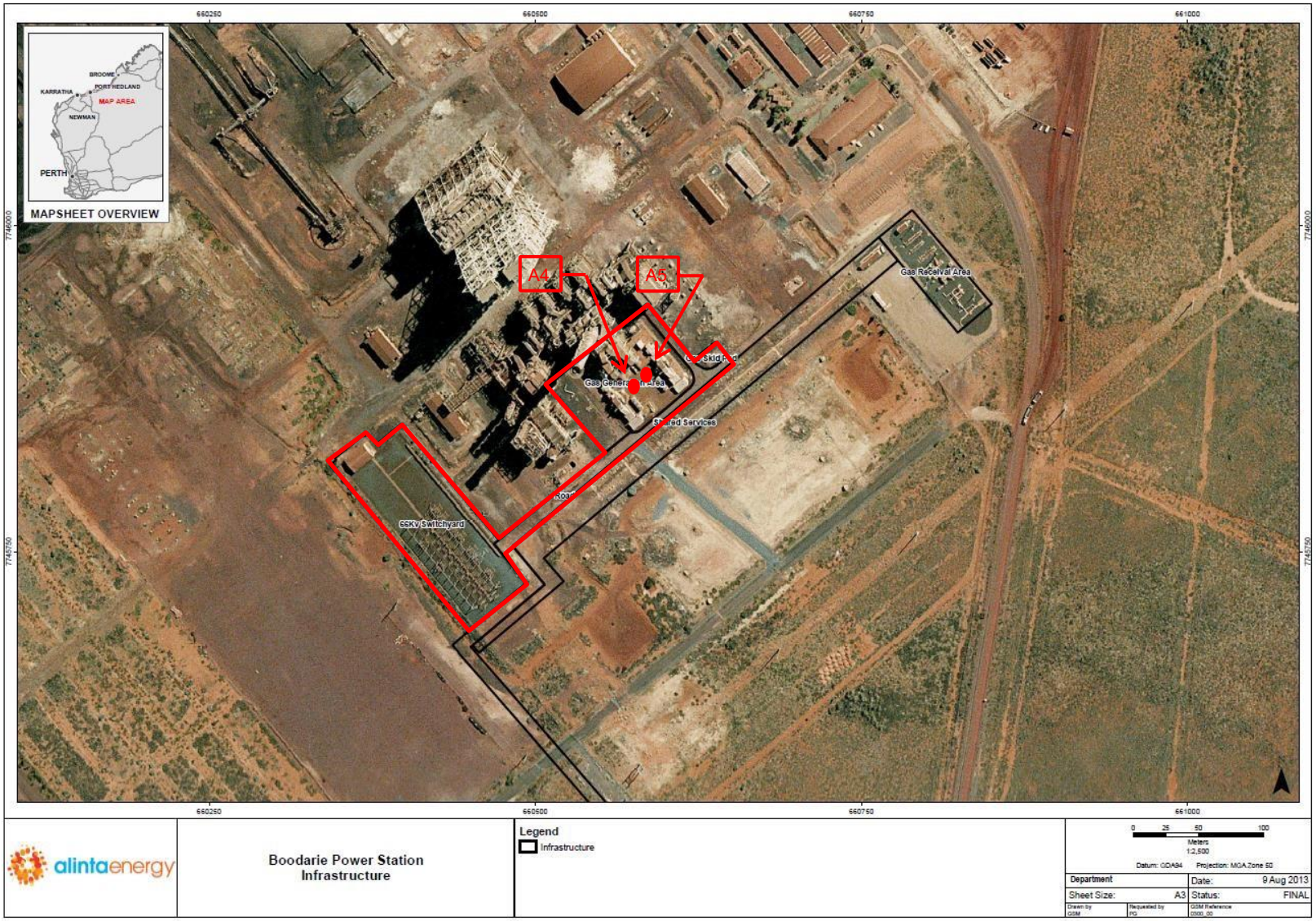
Condition or table (if relevant)	Parameter	Notification requirement[1]	Format or form[2]
3.1.5	Calibration report	As soon as practicable.	None specified
2.2.2 2.5.1	Breach of any limit specified in the Licence	Part A: Within 24 hours Part B: As soon as practicable but no later than 7 days of the incident	N1
	Any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution		

Note 1: No notification requirement in the Licence must negate the requirement to comply with s72 of the Act.
Note 2: Forms are in Schedule 2

Schedule 1: Maps

Premises map

The Premises boundary, emission points and monitoring points are shown in the maps below. The red lines depicts the Premises boundary.


660250
660500
660750
661000
7746000
7745750
MAPSHEET OVERVIEW
BROOME
PORT HEDLAND
KARRATHA
MAP AREA
NEWMAN
PERTH
A4
A5
Gas Receival Area
Gas Conditioning Area
Shared Services
Road
66KV Switchyard
alintaenergy
Boodarie Power Station
Infrastructure
Legend
Infrastructure
0 25 50 100
Meters
1:2,500
Datum: GDA94
Projection: MGA Zone 50
Department
Date: 9 Aug 2013
Sheet Size: A3
Status: FINAL
Drawn by GSM
Requested by PG
GSM Reference 0000_00

Government of Western Australia
Department of Environment Regulation

Schedule 2: Reporting & notification forms

This form is provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

Licence: L7336/1998/10
Form: AR1
Name: Monitoring of point source emissions to air

Licensee: APA DEWAP Pty Ltd
Period:

Form AR1: Monitoring of point source emissions to air

Emission point	Parameter	Result[1,2] (mg/m3)	Result[1,2] (g/s)	Averaging period	Method	Sample date & times
A1-A4	NOx	mg/m^3	g/s			
	CO	mg/m^3	g/s			
	Oxygen	mg/m^3	g/s			
	Moisture content	%	-			
	Volumetric flow rate	m^3/s	-			
	Stack temperature	^0C	-			
	Fuel feed rate over the duration of the test	kg/hr	-			
	Electrical power output over the duration of the test	MWe	-			

Note 1: All units are referenced to STP dry Note 2: All units are referenced to15% O_2

Signed on behalf of APA DEWAP Pty Ltd: …….. Date: …….

Licence: L7336/1998/10 Licensee: APA DEWAP Pty Ltd
Form: N1 Date of breach:

Notification of detection of the breach of a limit or any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution.
These pages outline the information that the operator must provide.
Units of measurement used in information supplied under Part A and B requirements must be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution	
Date and time of event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken , or intended to be taken, to stop any emission	
Description of the failure or accident	

Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of APA DEWAP Pty Ltd	
Date	