



Government of **Western Australia**
Department of **Environment Regulation**

Your ref: L8791/2013/1
Our ref: 2012/005807
Enquiries: Caroline Conway-Physick
Phone: (08) 9964 0901
Fax: (08) 9921 5713
Email: caroline.conway-physick@der.wa.gov.au

Mr David Ellis
Power Service Manager
Department of Infrastructure and Regional Development
Indian Ocean Territories Power Services
11-13 Quarry Road
CHRISTMAS ISLAND WA 6798

Dear Mr Ellis

ENVIRONMENTAL PROTECTION ACT 1986 – AMENDMENT TO LICENCE

Licence: L8791/2013/1

Premises: Christmas Island Power Station

Further to my letter dated 30 October 2014, please find enclosed your amended *Environmental Protection Act 1986* licence.

If you have any questions or objections relating to the licence, please do not hesitate to contact the enquiries officer above on (08) 9964 0901 for clarification or discussion of any grievances you have.

If you are concerned about, or object to any aspect of the amendment, you may lodge an appeal within 21 days from the date on which this licence is received. To lodge an appeal please direct all correspondence to:

The Hon Jamie Briggs MP
Assistant Minister for Infrastructure and Regional Development
c/o Territories Office
M1 26 Parliament House
Canberra ACT 2600

If you have any queries regarding the above information, please contact Caroline Conway-Physick on (08) 9964 0901.

Yours sincerely

Ed Schuller
Officer delegated under Section 20
of the *Environmental Protection Act 1986*

27 November 2014

enc: Amended Licence L8791/2013/1
copy to: Local Government Authority: Shire of Christmas Island

TL0571 v2.0



Licence

Environmental Protection Act 1986 (WA)(CI), Part V

Licensee: Department of Infrastructure and Regional Development

Licence: L8791/2013/1

Registered office: 111 Alinga Street
Canberra City ACT 2601

ABN: 86 267 354 017

Premises address: Christmas Island Power Station
Crown Reserve 47538
Murray Road, Drumsite
Being Lot 500 on Plan 63606 as depicted in Schedule 1
CHRISTMAS ISLAND WA 6798

Issue date: Thursday, 06 March 2014

Commencement date: Saturday, 08 March 2014

Expiry date: Thursday, 07 March 2019

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	10 megawatts or more in aggregate (using a fuel other than natural gas)	24 MWe per annual period
73	Bulk storage of chemicals, etc: premises on which acids, alkalis or chemicals that – (a) contain at least one carbon to carbon bond; and (b) are liquid at STP standard temperature and pressure), are stored.	1,000 cubic metres in aggregate	1,073 cubic metres (diesel) per annual period

Conditions

This Licence is subject to the conditions set out in the attached pages.



Officer delegated under section 20
of the *Environmental Protection Act 1986 (WA)(CI)*



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Introduction

This Introduction is not part of the Licence conditions.

DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986 (WA) (CI)* (the Act) for the licensing of prescribed premises. Through this process DER 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. DER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

This licence is issued under Part V of the Act. Conditions contained within 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.

A licence under the *Environmental Protection Act 1986 (WA)(CI)* has been granted for the above premises. The Department of Environment Regulation will advertise the issuing of this licence in the public notices sections of The Atoll and The Islander newsletters.

The Hon Jamie Briggs MP
Assistant Minister for Infrastructure and Regional Development
M1 26 Parliament House
Canberra ACT 2600

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.

Premises description and Licence summary

The Christmas Island Power Station is located on Christmas Island approximately 1560 kilometres northwest of Exmouth. The facility is managed and operated by the Indian Ocean Territories Power Service (IOTPS), a business unit of the Department of Infrastructure and Regional Development. IOTPS seeks to provide electricity to the community at Christmas Island in an environmentally responsible manner and at the lowest cost.

The facility operates seven diesel (distillate-oil) fired generators, comprised of the following:

Instrument identification	Manufacturer	Output capacity	Operation
Generator 4	Allen	2.8MW	Back-up unit
Generator 5	Ruston	3.4MW	Frontline unit
Generator 6	Ruston	3.4MW	Frontline unit
Generator 7	Wartsila	2.6MW	Frontline unit
Generator 8	Wartsila	2.6MW	Frontline unit
Generator 9	Wartsila	2.6MW	Frontline unit
Generator 10	Wartsila	2.6MW	Frontline unit

The main emissions produced by the power station is gaseous emissions in the form of carbon dioxide, carbon monoxide, sulphur dioxide, oxides of nitrogen and volatile organic compounds from the combustion process used to create steam for power generation. An upgrade to the plant incorporating the four new Wartsila engines has reduced the carbon dioxide output per kilowatt hour by approximately 11%. Point source emission testing revealed that the current power plants emissions are comparable with those of similar sized facilities on the mainland, however they exceed the *NSW Protection of the Environment Operations (Clean Air) Regulation 2010* guideline on standards of concentrations of oxides of nitrogen. Point source emission monitoring conducted on both the new and older generators indicated a range from 1600mg/dscm – 2400mg/dscm respectively. The regulations appoint a standard concentration for a facility built and put in use after 2005 at 90mg/m³ therefore the emissions significantly exceed the guidelines. DER has assessed these emissions with potential impacts to the airshed and considers that the effects should not be significant considering the location of the facility, other contributors and the size of the airshed. All other measureable emissions were within the acceptable standard concentrations set out under the regulations and were found to be meet limits set out in the



Environment Agency sector guidance note titled "IPPC Sector Guidance Note Combustion Activities, 2005".

An environmental management plan and emergency response plan are in place for the power station aimed at minimising environmental impacts and ensuring an appropriate level of emergency response is maintained through implementation of standard operating procedures such as spill management, internal drainage for hydrocarbon management and the appropriate storage of hazardous chemicals. The bulk storage of hydrocarbons is currently managed under Dangerous Goods licence number DGS014963.

In August 2014 a licence amendment was required to include Category 73 – Bulk storage of chemicals, after the completion of works which involved increasing the total storage capacity for hydrocarbons within the premises 1,073 000 million litres for on-site use. Production volumes are likely to be approximately 1,045 000 million litres for the premises at any given time. The increased capacity will offer the power authority additional surety in energy production if and when fuel deliveries are not possible due to incremental weather and large swells. An additional bund wall extending the tank farm has been installed. No additional conditions were required to be added to the Licence to manage the impact of the additional storage capacity of hydrocarbons.

The amended licence reflects the recent upgrades undertaken at the premises through the completed Works Approval (W5620/2014/1) process.

The licences and works approvals issued for the Premises since 25/03/2006 are:

Instrument log		
Instrument	Issued	Description
L8092/1	25/03/2006	New application
L8092/2	26/03/2007	Licence re-issue
L8092/3	26/03/2008	Licence re-issue
L8092/4	05/01/2009	Licence re-issue
L8092/5	09/08/2010	Licence re-issue
L8092/6	28/10/2011	Licence amendment
L8092/7	08/03/2013	Licence amendment
L8791/2013/1	06/02/2014	New licence in REFIRE format
W5620/2014/1	16/04/2014	Works Approval for the upgrade of storage tanks and tank farm
L8791/2013/1	27/11/2014	Licence amendment for addition of Category 73

Severance

It is the intent of these Licence conditions that they shall 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 shall be severed and the remainder of these conditions shall 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 (WA) (CI)* 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 (WA) (CI)*;

'annual period' means the inclusive period from 01 July until 30 June in the following year;

'AS/NZS 5667.1' means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

'AS/NZS 5667.10' means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters*;

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

'CPI' means coalescing plate interceptor

'code of practice for the storage and handling of dangerous goods' means document titled "Storage and handling of dangerous goods: Code of Practice" published by the Department of Mines and Petroleum, as amended from time to time;

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

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;
Indian Ocean Territories Environmental Officer, Environmental Regulation Division,
Department of Environment Regulation
Locked Bag 33
CLOISTERS SQUARE WA 6850
Telephone: (08) 9080 5504

'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, 2.3, 2.4 and 2.5;

'Licence' means this Licence numbered L8791/2013/1 and issued under the Act;

'Licensee' means the person or organisation named as Licensee on page 1 of the Licence;



'Low sulphur diesel' means diesel which contains 10 parts per million (or 10 mg/kg) of sulphur or less;

'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;

'Premises' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

'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;

'six monthly' means the 2 inclusive periods from 1 July to 31 December and 1 January to 30 July annually;

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

'TRH' means Total Recoverable Hydrocarbons (hexane soluble).

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

1.2 General conditions

1.2.1 Nothing in the Licence shall 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 shall 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, shall 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 shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.



1.2.5 The Licensee shall:

- (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

Note1: The *Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment.

1.3 **Premises operation**

There are no specified conditions relating to Premises operation in this section.

2 Emissions

2.1 **General**

2.1.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit or target specified in any part of section 2 of this Licence.

2.2 **Point source emissions to air**

2.2.1 The Licensee shall 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 it is done so in accordance with the conditions of this licence.

Emission point reference	Emission point	Emission point height (m)	Source, including any abatement
A1	Generator 4 exhaust	10	Generator 4 - Allen back-up unit 2.8 MWe
A2	Generator 5 exhaust	12	Generator 5 - Ruston frontline units 3.4 MWe
A3	Generator 6 exhaust	12	Generator 6 - Ruston frontline units 3.4 MWe
A4	Generator 7 exhaust	16	Generator 7 - Wartsila frontline unit 2.6 MWe
A5	Generator 8 exhaust	16	Generator 8 - Wartsila frontline unit 2.6 MWe
A6	Generator 9 exhaust	16	Generator 9 - Wartsila frontline unit 2.6 MWe
A7	Generator 10 exhaust	16	Generator 10 - Wartsila frontline unit 2.6 MWe

2.3 **Point source emissions to surface water**

There are no specified conditions relating 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 shall ensure that where waste is emitted to land from the emission points in Table 2.5.1 it is done so in accordance with the conditions of this licence.

Table 2.5.1: Emission points to land

Emission point reference	Description	Source including abatement
L1, L2 and L3	Discharge to stormwater pipe	Waste water discharged from disk skimmer and coalescing plate interceptor (CPI)

2.5.2 The Licensee shall not cause or allow point source emissions to land greater than the limits listed in Table 2.5.2.

Table 2.5.2: Point source emission limits to land

Emission point reference	Parameter	Limit (including units)	Averaging period
L1, L2 and L3	Hydrocarbons (TRH)	30 mg/L	Spot sample

2.5.3 The Licensee shall target point source emissions to land at or below the levels specified in Table 2.5.3.

Table 2.5.3: Point source emission targets to land

Emission point reference	Parameter	Target (including units)	Averaging period
L1, L2 and L3	Hydrocarbons (TRH)	≤15 mg/L	Spot sample

2.6 Fugitive emissions

2.6.1 The Licensee shall use all reasonable and practical measures to prevent and where that is not practicable to minimise dust emissions from the Premises.

2.7 Odour

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

2.8 Noise

2.8.1 The Licensee shall ensure that noise emitted from the Premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the Premises.



3 Monitoring

3.1 General monitoring

3.1.1 The licensee shall ensure that:

- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- (b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
- (c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.

3.1.2 The Licensee shall ensure that :

- (a) six monthly monitoring is undertaken at least 5 months apart.

3.1.3 The Licensee shall 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.

3.1.4 The Licensee shall, 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 CEO accompanied with a report comprising details of any modifications to the methods.

3.2 Monitoring of point source emissions to air

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

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 shall undertake the monitoring in Table 3.3.1 according to the specifications in that table.

Table 3.5.1: Monitoring of point source emissions to land			
Emission point reference	Parameter	Units	Frequency
L1, L2 and L3	Hydrocarbons (TRH)	mg/L	Six monthly

3.6 Monitoring of inputs and outputs

3.6.1 The Licensee shall undertake the monitoring in Table 3.6.1 according to the specifications in that table.

Table 3.6.1: Monitoring of inputs and outputs				
Input/ Output	Parameter	Units	Averaging period	Frequency
Diesel fuel	Sulphur	ppm or mg/kg	Monthly	Each batch arriving at premises



3.6.2 The Licensee shall not accept diesel fuel onto the site unless the fuel is less than the limit listed in Table 3.6.2.

Table 3.6.2: Monitoring of diesel inputs				
Input	Parameter	Units	Limit (including units)	Frequency
Diesel fuel	Sulphur	ppm or mg/kg	≤10 ppm/ 10 mg/kg	Each batch arriving at premises

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 shall:

- (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 shall 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 shall 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 shall 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 shall submit to the CEO an Annual Environmental Report within 92 calendar days after the end of the annual period. The report shall 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 and any environmental incidents that have occurred during the annual period and any action taken	None specified
Table 2.5.3	Target exceedances	None specified
Table 3.5.1	Hydrocarbons (TRH)	LR1
Table 3.6.1	Monitoring of inputs and outputs	None specified
Table 3.6.2	Monitoring of diesel inputs	None specified
5.1.3	Compliance	Annual Audit Compliance Report (AACR)
5.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2



- 5.2.2 The Licensee shall 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.

5.3 Notification

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

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
2.1.1	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day.	N1
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution	Part B: As soon as practicable	
3.1.5	Calibration report	As soon as practicable.	None specified

Note 1: Notification requirements in the licence shall not negate the requirement to comply with s72 of the Act

Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

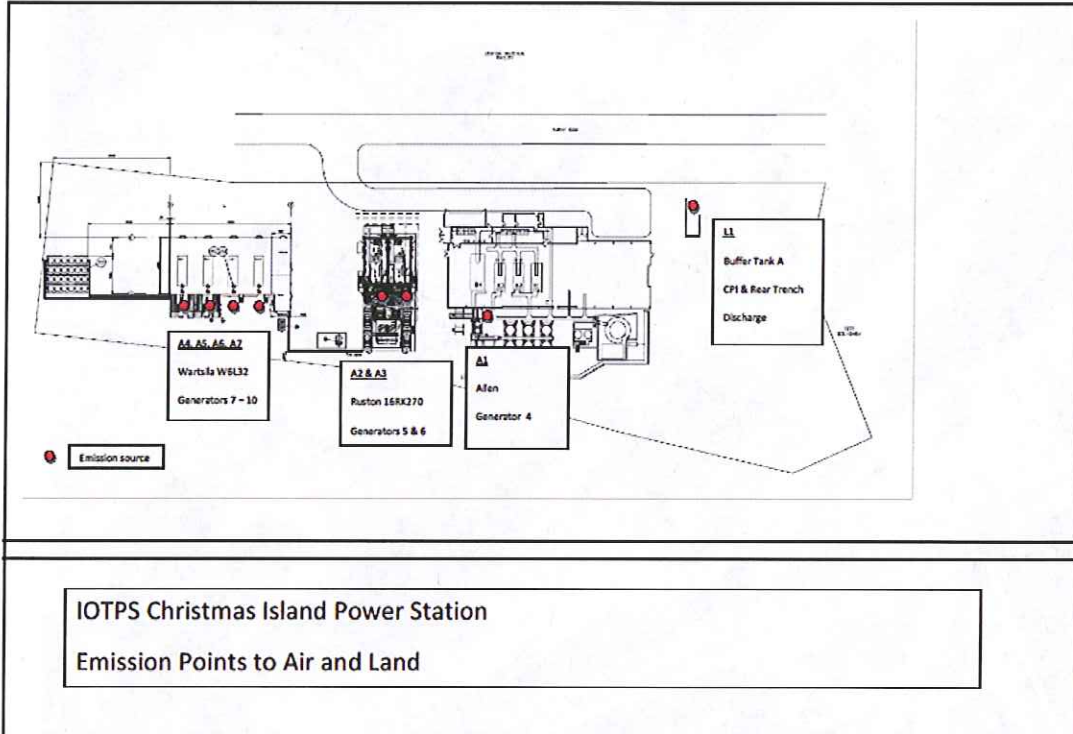
The Premises is shown in the maps below. The white line depicts the Premises boundary.





Map of emission and monitoring points

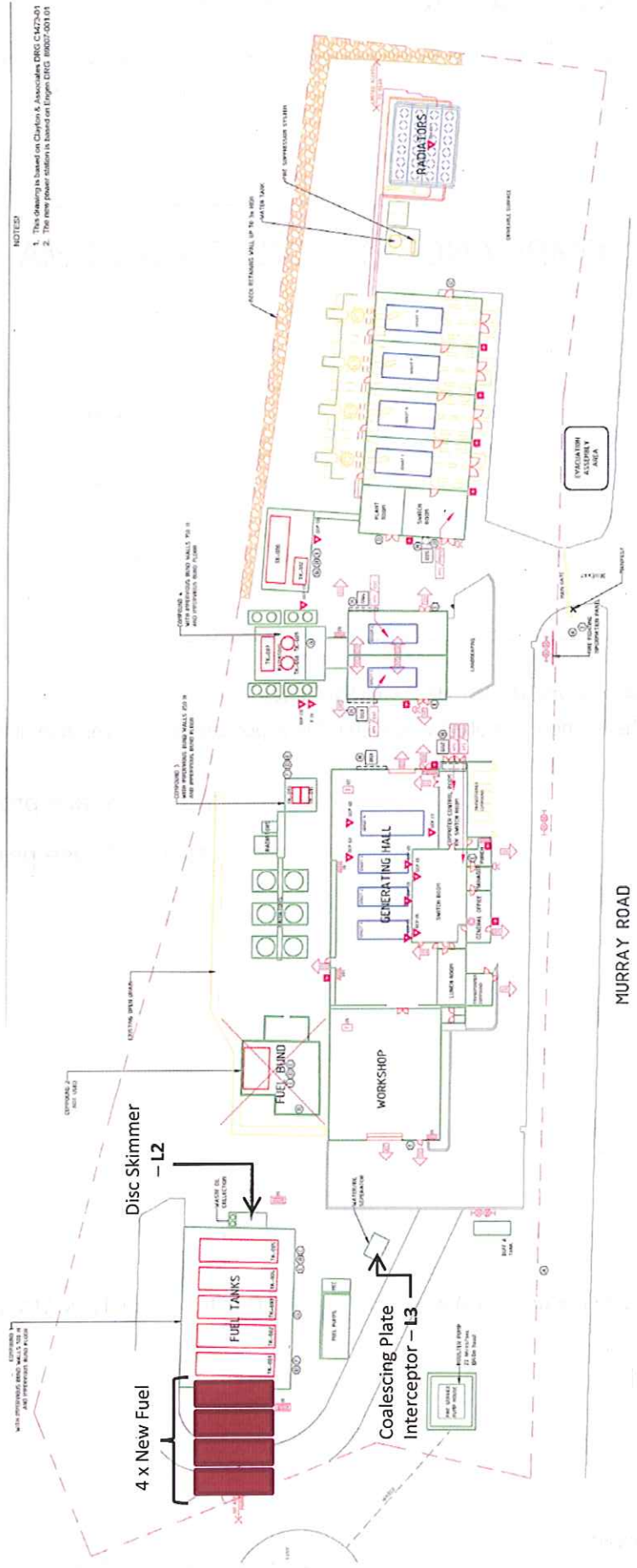
The locations of the emission point as defined in Tables 2.2.1, 2.5.1, 2.5.2 and 2.5.3 is shown below.





Map of monitoring points

The locations of monitoring points as defined in Table 3.5.1 is shown below





Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of the licence complied with within the reporting period? (please tick the appropriate box)

Yes Please proceed to Section C

No Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



SECTION B
DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each licence condition that was not complied with.

a) Licence condition not complied with:	
b) Date(s) when the non compliance occurred, if applicable:	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____ <input type="checkbox"/> Reported to DER in writing Date _____	<input type="checkbox"/> No
d) Has DER taken, or finalised any action in relation to the non compliance?:	
e) Summary of particulars of the non compliance, and what was the environmental impact:	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram):	
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects of the non compliance:	
i) Action taken or that will be taken to prevent recurrence of the non compliance:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) may only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the Corporations Act 2001; or by two directors of the licensee; or by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986 (WA) (CI)* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: _____

SIGNATURE: _____

NAME:
(printed) _____

NAME:
(printed) _____

POSITION: _____

POSITION: _____

DATE: ____/____/____

DATE: ____/____/____



Licence:
Form:

L8791/2013/1
LR1

Licensor: Department of Infrastructure and Regional Development
Period :

Name: Monitoring of emissions to land

Emission point	Parameter	Limit	Result'	Averaging period	Method	Sample date & times
L1, L2 and L3	Hydrocarbons (TRH)	30mg/L	mg/L	Spot sample		

Note 1: All units are referenced to STP dry



Licence: L8791/2013/1
Form: N1

Licensee: Department of Infrastructure and Regional Development
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 shall 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	

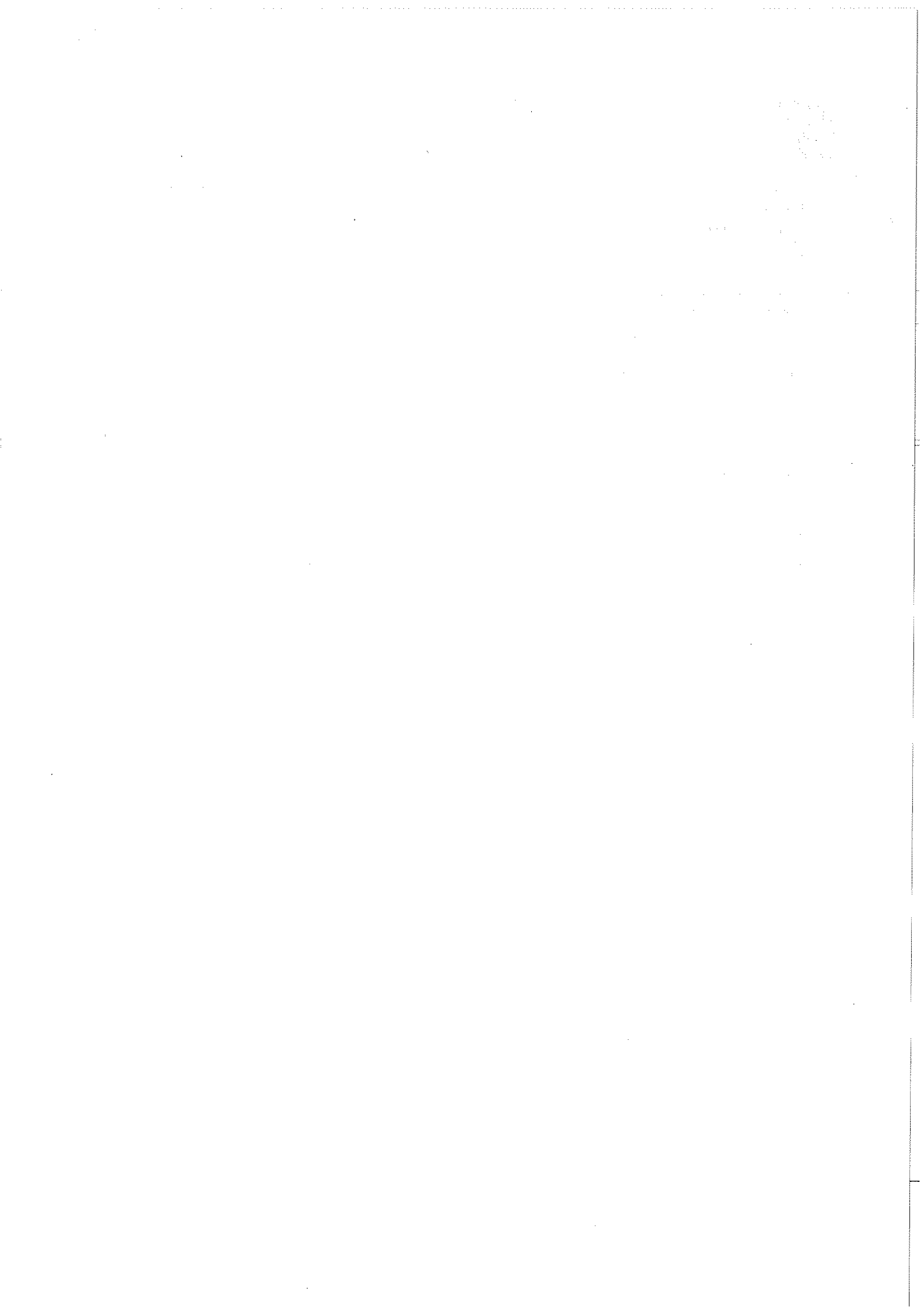
Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution	
Date and time of event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
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: Department of Infrastructure and Regional Development.	
Date	





Decision Document

Environmental Protection Act 1986 (WA)(CI), Part V

Proponent: Department of Infrastructure and Regional Development

Licence: L8791/2013/1

Registered office: 111 Alinga Street
Canberra City ACT 2601

ACN: 86 267 354 017

Premises address: Christmas Island Power Station
Crown Reserve 47538
Murray Road, Drumsite
CHRISTMAS ISLAND WA 6798
Being on Lot 500 on Plan 63606 as depicted in Schedule 1

Issue date: Thursday, 06 March 2014

Commencement date: Saturday, 08 March 2014

Expiry date: Thursday, 07 March 2019

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue an amended licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by: C. Conway-Physick
Licensing Officer

Decision Document authorised by: S. Checker
Manager Licensing



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Appendix A	Error! Bookmark not defined.

1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986 (WA) (CI)*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;

Standard conditions (SC)

DER has standard conditions that are imposed on all works approvals and licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on works approvals and licences:

Works approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on works approvals and licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any licence. The inclusion of any optional standard conditions is justified in Section 4 of this document.

Non standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few licences. Where used, justification for the application of these conditions will be included in Section 4.



2 Administrative summary

Administrative details							
Application type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>						
Activities that cause the premises to become prescribed premises	<table border="1"> <thead> <tr> <th>Category number(s)</th> <th>Assessed design capacity</th> </tr> </thead> <tbody> <tr> <td>52</td> <td>24 MWe per annual period</td> </tr> <tr> <td>73</td> <td>1,073 cubic metres aggregate</td> </tr> </tbody> </table>	Category number(s)	Assessed design capacity	52	24 MWe per annual period	73	1,073 cubic metres aggregate
	Category number(s)	Assessed design capacity					
	52	24 MWe per annual period					
73	1,073 cubic metres aggregate						
Application verified	Date: N/A						
Application fee paid	Date: N/A						
Works Approval has been complied with	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> W5620/2014/1						
Compliance Certificate received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>						
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						
Commercial-in-confidence claim outcome							
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986 (WA) (CI)</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>						
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ministerial statement No: EPA Report No:						
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986 (WA) (CI)</i>)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.						
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, e.g. Site is subject to SO ₂ requirements of Kwinana EPP.						



3 Executive summary of proposal and assessment

The Christmas Island Power Station is located on Christmas Island approximately 1560 kilometres northwest of Exmouth. The facility is managed and operated by the Indian Ocean Territories Power Service (IOTPS), a business unit of the Department of Infrastructure and Regional Development. The power station was originally commissioned in 1968. It is a diesel power generation station with a total capacity of 24 Mega Watts.

Electricity, generated at IOTPS using seven diesel fired generator sets (three additional generators on the premises have been decommissioned), is distributed across the island through a combination of overhead and underground power lines. Fuel for the generator sets is supplied by Gaseng Petroleum Pty Ltd (Gaseng), an independent fuel distribution business contracted to the Commonwealth Government. The fuel is stored on the premises prior to use.

The facility is manned premises. The premises is alarmed after operational hours, with a person on duty to respond in the case of an emergency.

Prior to the Works Approval (W5620/2014/1), the total design capacity was 5 x 110,000 litres of diesel being stored at the premises. The Works Approval increased this capacity to a total of 1,045 000 litres for the prescribed premises, with the addition of four diesel storage tanks. The premises tanks are replenished from the bulk storage facility from 'Gaseng' at Smiths Point (ref: *1314-061_Gaseng_WA for Additional Fuel Storage_Ver1.0_Final*)

Diesel from the bulk storage tanks (TK-001 through TK-005) is pumped to the settling tank (TK-007), then onto day storage tanks (TK-008 and TK-009) located in Compound 4. Diesel from TK-008 and TK-009 is cleaned in two centrifugal diesel cleaners operating in a duty/standby arrangement and supplied to the standby Ruston generator sets. Diesel from TK-008 is also directed to TK-006 and then supplied without cleaning to the Wartsila generators sets. The Wartsila generators are installed with filters which serve to clean the diesel. Exhaust gases created from electricity production are dispersed through stacks to atmosphere.

The process uses two types of water: scheme water treated by reverse osmosis (RO) and rainwater. RO water is mixed with coolant and inhibitor to reduce corrosion and used in the engine's cooling systems. Rainwater, collected from the facilities roof top, is used in the diesel fuel separators.

The increased capacity will offer the power authority additional surety in energy production if and when fuel deliveries are not possible due to incremental weather and large swells. No additional conditions were required to be added to the licence to manage the impact of the additional storage capacity of hydrocarbons.

Liquid waste (water, oil) from maintenance, operations and fuel storage areas is collected and directed through one or multiple oil/water separators onsite, stored in Buffer Tank A (located in Compound 4) and then discharged from site. Other stormwater and waste water from Reverse Osmosis treatment is discharged directly to stormwater drains. Waste oil is collected from separation devices and sent off island for recycling.

The premises was assessed and found compliant against the Works Approval W5620/2014/1 on 18 August 2014. The Licence was amended in October 2014 to add Category 73 for the bulk storage of chemicals at the premises.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986 (WA)(CI)*, the *Environmental Protection Regulations 1987*, DEC's Policy Statement - Limits and targets for prescribed premises (2006), and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE

Licence section	Condition number L= Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.1		Administrative changes have been undertaken to the interpretation section of the Licence to ensure that all definitions within the Licence are reflective of the conditions and correct.	Application supporting documentation
	L1.2.1-L1.2.5		A re-assessment for the general conditions of the Licence has not been undertaken through this Licence Amendment process. No additional conditions have been added within this section of the Licence.	
Premises operation	L1.3	N/A	No additional conditions have been added within the premises operation section of the Licence through this Licence Amendment process.	N/A
Emissions general	L2.1.1	OSC	No additional descriptive limits/ targets have been placed within the Licence through this process regarding recording and investigation of exceedances of limits or targets.	N/A
Point source emissions to air including monitoring	L2.2	N/A	An administrative change was made to the wording of OSC2.1.1 and OSC2.2.1	
	L3.2		No additional conditions have been added within the point source emissions to air including monitoring section through this Licence Amendment process.	N/A
Point source emissions to surface water including monitoring	L2.3	N/A	This is managed under the current conditions of the Licence OSC2.2.1.	
	L3.3		No additional conditions have been added within the point source emissions to surface water including monitoring section through this Licence Amendment process.	N/A
			High infiltration rates result in little surface water flow. A small creek exists 100m from the premises.	



DECISION TABLE

Licence section	Condition number L= Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Point source emissions to groundwater including monitoring	L2.4 L3.4	N/A	No additional conditions have been added within the point source emissions to groundwater including monitoring section through this Licence Amendment process. The core of Christmas Island is formed from hard impervious volcanic material which is predominately basalt. Overlying the basalt is a cap of porous limestone and phosphate deposits. The depth to groundwater and extent of the aquifer that overlies the basalt layer is unknown.	N/A
	L2.5 L3.5	N/A OSC	No additional conditions have been added within the point source emissions to groundwater including monitoring section through this Licence Amendment process. The premises has increased its storage volume of hydrocarbons within the fuel farm to 1,073 000 litres within a fully bonded facility and in accordance with Dangerous Goods licence requirements (DGS014963). The current conditions within the Licence are considered adequate. An administrative change has been made to the 'frequency' within Table 3.5.1 to six monthly monitoring of TRH (previously April and December) at the emission point reference which is considered more appropriate for the Licence. Gaseng transfers diesel through to IOTPS on Monday, Wednesday and Friday each week.	Application supporting documentation from Works Approval W5620/2014/1 <i>Contaminated Sites Management Series - Assessment levels for Soil, Sediment and Water, 2010</i> <i>Environmental Protection (Unauthorised Discharges) Regulations, 2004.</i> Code of Practice for the Storage and Handling of Dangerous Goods, Department of Mines and Petroleum, Government of Western Australia.



DECISION TABLE

Licence section	Condition number L= Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Fugitive emissions	L2.6.1	OSC	No re-assessment of fugitive emissions was undertaken through this Licence Amendment process. A current condition within the Licence OSC2.6.1 is considered adequate for the premises operation.	
Odour	L2.7	N/A	No re-assessment of odour emissions was undertaken through this Licence Amendment process. The nearest sensitive receptor is the Christmas Island Senior High School approximately 600m to the north.	Application supporting documentation from the Works Approval W5620/2014/1
Noise	L2.8.1	OSC	No re-assessment of noise emissions was undertaken through this Licence Amendment process. The current condition within the Licence OSC2.8.1 is considered adequate for the premises operation. The generators are housed within sound proof enclosures and have exhaust stacks.	Application supporting documentation from the Works Approval W5620/2014/1
Monitoring general	L3.1.1 L3.1.2-L3.1.3	OSC OSC	Administrative changes were made for condition OSC3.1.1(c). Condition OSC3.1.2 was placed within the Licence to more clearly define the monitoring timeframes to be undertaken at the premises. The previous condition OSC3.1.2 has now become condition OSC3.1.3. An administrative change was made within this condition which was originally OSC3.1.3 and is now OSC3.1.4. In addition the word 'Director' has been changed to 'CEO'.	
Monitoring of inputs and outputs	L3.1.4 L3.6.1 L3.6.2	OSC OSC OSC	No re-assessment of monitoring of inputs and outputs was undertaken through this Licence Amendment process. The current conditions within the Licence OSC2.6.1 is considered adequate for the premises operation. An administrative change has been made to the 'units' and 'limits' stated within the current condition within OSC Table 3.6.2. The condition has been updated to reflect the type of diesel being stored at the premises which is low sulphur diesel (as defined by 'Shell Australia' - 10% or less sulphur content).	



DECISION TABLE

Licence section	Condition number L= Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Process monitoring	L3.7	N/A	No re-assessment of process monitoring was undertaken through this Licence Amendment process.	N/A
Ambient quality monitoring	L3.8	N/A	No re-assessment of ambient quality monitoring was undertaken through this Licence Amendment process.	N/A
Meteorological monitoring	L3.9	N/A	No re-assessment of meteorological monitoring was undertaken through this Licence Amendment process.	N/A
Improvements	L4	N/A	No improvement programmes have been identified for the Premises through this Licence Amendment process.	N/A
Information	L5.1	N/A	No changes have been made within SC5.1 through this Licence Amendment process.	N/A
	L5.2 L5.3		Administrative changes have been made within SC5.2 and SC5.3 changing the word 'Director' to 'CEO'. Table 5.2.1 has been updated to correctly reflect the reporting requirements for the Licence. The submission period is three months after the reporting period ends within which to submit the Annual Environmental (AER) and Annual Audit Compliance Reports (AACR) for review.	
Licence Duration		N/A	The Licence is undergoing an amendment process to reflect the recent works completed in accordance with Works Approval W5620/2014/1. The current Licence L8791/2013/1 was set for a duration of 5 years in accordance with DER procedures and expires in 07 March 2019.	N/A



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
28/11/2014	Application advertised in West Australian (or other relevant newspaper)	Nil	N/A
30/10/2014	Proponent sent a copy of draft instrument	Nil comments received.	N/A



6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

Table 1: Emissions Risk Matrix

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High