Queensland Government

Department of Environment and Heritage Protection

Permit

Sustainable Planning Act 2009

EHP Permit [1] number: SPCE04947712

This notice is issued by the Department of Environment and Heritage Protection pursuant to section 376 (decision notice) of the Sustainable Planning Act 2009 ("the Act").

Assessment manager reference (if any):	Darling Downs Power Station
Date application received:	06-Nov-2012
Permit type:	Amended development permit
Date of decision:	12-Dec-2012
Decision:	The Chief Executive, Department of Environment and Heritage Protection (EHP) concurrence agency response for the concurrence agency referral jurisdiction for the aspect of development involved with the application the subject of this Notice is to tell the aplicant as follows Concurrence Response for a MCU involving an ERA.
Relevant laws and policies:	Sustainable Planning Act

Jurisdiction(s):

Jurisdiction	Legislation
Concurrence Response for a MCU involving an ERA. Material change of use – Environmentally relevant activities	Sustainable Planning Regulation 2009 – Schedule 7, table 2, item 1

Development Description(s)

Property	Lot/Plan	Aspect of Development
Grahams Road,WARRA QLD 4411	Lot 1 Plan SP227731, Lot 121 Plan SP178856	ERA 14 Electricity generation Threshold 1 - generating electricity by using gas at a rated capacity of 10MW electrical or more

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Department of Environment and Resource Management.

Department of Environment and Heritage Protection
www.ehp.qld.gov.au ABN 46 640 294 485

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which a development approval is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by a development approval as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

A development permit authorising the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the permit specifically authorises environmental harm.

A person carrying out an ERA must hold a registration certificate issued under the Environmental Protection Act 1994, or must be acting under a registration certificate, for the ERA.

Contaminated land

It is a requirement of the Environmental Protection Act 1994 that if an owner or occupier of land becomes aware a Notifiable Activity (as defined in Schedule 3 and Schedule 4 of the Environmental Protection Act 1994) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the Department of Environment and Heritage Protection.

Delegate
James Mackenzie
Delegate,
Department of Environment and Heritage Protection

12/12/2012

CONDITIONS OF DEVELOPMENT APPROVAL

Activity: **ERA 14(1) Electricity generation – generating electricity by using gas at a rated capacity of 10MW electrical or more.**

Agency Interest: General

General 1: Prevent and/or minimise likelihood of environmental harm.

In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.

General 2: Maintenance of Measures, Plant and Equipment.

The operator of an ERA to which this approval relates must:
(a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; and
(b) maintain such measures, plant and equipment in a proper and efficient condition; and
(c) operate such measures, plant and equipment in a proper and efficient manner.

General 3: Site Based Management Plan.

From commencement of an ERA to which this approval relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out.

The SBMP must address the following matters:
(a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals.
(b) Identification of environmental issues and potential impacts.
(c) Control measures for routine operations to minimise likelihood of environmental harm.
(d) Contingency plans and emergency procedures for non-routine situations.
(e) Organisational structure and responsibility.
(f) Effective communication.
(g) Monitoring of contaminant releases.
(h) Conducting environmental impact assessments.
(i) Staff training.
(j) Record keeping.
(k) Periodic review of environmental performance and continual improvement.

General 4: The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.

General 5: Records.

Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.

General 6: All records required by this approval must be kept for 5 years.

General 7: All ponds used for the storage or treatment of acid sulfate soils or other contaminants must be constructed, installed and maintained:

a) so as to prevent any release of contaminants through the bed or banks of the pond to any waters (including ground water);
b) so that a freeboard of not less than 0.5 metres is maintained at all times; and
c) so as to ensure the stability of the ponds' construction.

General 8: Suitable banks and/or diversion drains must be installed and maintained to exclude stormwater runoff from entering any ponds or other structures used for the storage or treatment of contaminants including acid sulfate soils or wastes.

General 9: Notification.

Telephone the EPA's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.

General 10: Monitoring.

A competent person(s) must conduct any monitoring required by this approval.

General 11: Equipment Calibration.

All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained.

Agency Interest: Air

Air 1: Dust Nuisance.

The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any nuisance sensitive or commercial place.

Air 2: The Release Of Contaminants To The Atmosphere.

The release of contaminants to the atmosphere from a point source must only occur from those release points identified in Table Air 1 - Contaminant release limits to air and must be directed vertically upwards without any impedance or hindrance.

Air 3: Contaminants must be released to the atmosphere from a release point at a height and a flow rate not less than the corresponding height and velocity stated for that release point in Table Air 1 - Contaminant release limits to air.

Air 4: Contaminants must not be released to the atmosphere from a release point at a mass emission rate/concentration, as measured at a monitoring point, in excess of that stated in Table Air 1 - Contaminant release limits to air.

Air 5: Contaminants must be monitored not less frequently than specified in Table Air 2 - Contaminant release limits to air.

Air 6: Nuisance.

The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.

Air 7: The only type of fuel to be burnt in power generation under normal operating conditions is natural gas.

Air 8: The sulphur content of any fuel burned in power generation is not to exceed 0.5 percent by

weight.

Air 9: Monitoring of Contaminant Releases to Atmosphere

The holder of this approval must conduct and keep records of a monitoring program of contaminant releases to the atmosphere at the release points, frequency, and for the parameter specified in Table - Air 2 and which complies with the following:

(a) Monitoring provision for the release points listed in Table -Air 2 must comply with the Australian Standard AS 4323.1 - 1995 "Stationary source emissions Method 1: Selection of sampling provisions".
(b) The following tests must be performed for each required determination specified in Table - Air 2:
(i) gas velocity and volume flow rate;
(ii) temperature and oxygen content;
(iii) water vapour concentration

(c) where practicable samples taken must be representative of the contaminants discharged when emissions are expected to be at maximum rates.
(d) during the sampling period the following additional information must be gathered:
- electricity generation rate at the time of sampling;
- fuel type and consumption rate;
- number of generating units in use; and
- reference to the actual test methods and accuracy's.

Air 10: The holder of this approval must have due regard to comments made by the administering authority regarding air quality monitoring protocol.

Air 11: Complaint Investigation, Monitoring and Recording

When requested by the Administering Authority, contaminant monitoring and recording must be undertaken to investigate any complaint of contamination, and the results notified within 14 days to the administering authority. If you can provide evidence through monitoring that the limits in Table - Air 1 are not being exceeded then you shall not be in breach of condition Air 4 with regards to any release of the contaminants listed in Table - Air 1. When monitoring is requested the following must be complied with:
- monitoring provisions for the release points listed in Table - Air 1 must comply with the Australian Standard AS 4323.1 - 1995 'Stationary source emissions Method 1: Selection of sampling positions'.
- the following tests must be performed for each required determination specified in Table - Air 1:
- gas velocity and volume flow rate;
- temperature and oxygen content,
- water vapour concentration (moisture content),
- where practicable samples must be taken when emissions are expected to be at maximum rates.
- during the sampling period the following additional information must be gathered:
- production rate at the time of sampling;
- raw materials used;
- number of equipment and operating units; and
- reference to the actual test methods and accuracy's.

Agency Interest: Land

Land 1: Preventing Contaminant Release To Land.

Contaminants must not be released to land.

Land 2: Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.

NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.

Agency Interest: Noise

Noise 1: Noise Nuisance.

Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place

Noise 2: Noise Monitoring.

When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:

- LA 10, adj, 10 mins
- LA 1, adj, 10 mins
- the level and frequency of occurrence of impulsive or tonal noise;
- atmospheric conditions including wind speed and direction;
- effects due to extraneous factors such as traffic noise; and
- location, date and time of recording.

Noise 3: The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.

Noise 4: All noise from activities must not exceed the levels specified in Table Noise 1 - Noise limits at any nuisance sensitive place.

Agency Interest: Social

Social 1: Complaint Response.

The operator of the ERA must record the following details for all complaints received and provide this information to the administering authority on request:
a) Time, date, name and contact details of the complainant;
b) reasons for the complaint;
c) any investigations undertaken;
d) conclusions formed; and
e) any actions taken.

Agency Interest: Waste

Waste 1: All regulated waste removed from the site must be removed by a person who holds a current approval to transport such waste under the provisions of the Environmental Protection Act 1994.

Agency Interest: Water

Water 1: The size of any sedimentation dam must be sufficient to contain the run-off expected from a 24 hour storm with an average recurrence interval of 1 in 5 years.

Water 2: Contaminants other than settled/treated stormwater runoff waters must not be released from the site to surface waters or the bed or banks of surface waters.

Water 3: Stormwater Management.

There must be no release of stormwater runoff that has been in contact with any contaminants at the site to any waters, roadside gutter or stormwater drain other than as authorised under conditions 'Water 4' and 'Water 6'.

Water 4: Condition 'Water 3' does not prohibit the release of stormwater provided that the stormwater has been treated in an oil/water interceptor, sedimentation basin or other process to effectively remove contaminants before the stormwater is released to waters.

Water 5: Suitable banks and/or diversion drains must be installed and maintained to exclude stormwater runoff from entering any ponds or other structures used for the storage or treatment of contaminates or wastes.

Water 6 Water may be released from the sedimentation dam if water quality samples are collected from the sedimentation dam sample point (Location W1 described in Table: Water 1) prior to release, and the analysis of water quality samples shows that the water quality (WQ) parameters are in accordance with criteria listed in Table: Water 2 – Stormwater Discharge Criteria.

Water 7 In addition to Condition 'Water 6', weekly water quality samples will be collected from the sedimentation dam sample point (Location W1 described in Table: Water 1) and analysed for water quality (WQ) parameters in accordance with criteria listed in Table: Water 2 – Stormwater Discharge Criteria.

Water 8 Records of all water samples taken in accordance with Conditions 'Water 6' and 'Water 7' will be maintained onsite and made available to the administering authority upon request.

Water 9 Under normal operation the stormwater dam outlet valve will be maintained in a 'closed' position so that it may act as a buffer in the event of a spill onsite.

Water 10 The stormwater dam outlet valve may be opened manually to allow for releases in accordance with Condition 'Water 4' and 'Water 6'. All releases will be conducted with consideration of minimising disruptions to environmental flows in the downstream waterway.

Tables

Table: Air 1 - Contaminants release limits to air (contaminants release characteristics)

Release point number	Minimum release height (metres)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit [1]
A1-Generator Stack	35	22	Oxides of Nitrogen	35 ppmv (dry) @15% O_2 and 21.5 grams/second
A2-Generator Stack	35	22	Oxides of Nitrogen	35 ppmv (dry) @15% O_2 and 21.5 grams/second
A3-Generator Stack	35	22	Oxides of Nitrogen	35 ppmv (dry) @15% O_2 and 21.5 grams/second

Note 1: The above NOx release limits are applicable during all timings except start-up, shut-down and calibration of emission monitoring devices. The start-up duration is allowed up to 275 minutes.

Table: Air 2 – Contaminant release limits to air (required release point determinations)

Determination Required	Release Point Numbers	Frequency
Mass emission rate and concentration of oxides of nitrogen (NOx) in the flue gas at a 15 percent oxygen reference level.	Generator Stacks A1 to A3 inclusive	All stacks must be monitored (See Note 1) once every two years.

Note 1: Twice yearly monitoring shall resume for a period of two years if any of the following occur:
a) Significant change to the monitoring conditions of the power station
b) If any release limit is exceeded
c) If requested by the administrating authority

Table: Noise 1 – Noise limits

Noise level dB(A) measured as	Monday to Saturday			Sundays and public holidays		
	7am - 6pm	6pm - 10pm	10pm - 7am	9am - 6pm	6pm - 10pm	10pm - 9am
	Noise measured at a 'nuisance sensitive place'					
$L_{A10, adj, 10 mins}$	35	33	33	33	33	33

Note 2: No noise limits are specified for a 'commercial place'

Table: Water 1 – Water Quality Monitoring Locations

Site Name	Location	Latitude	Longitude
Sedimentation pond	W1	- 27.1195 S	150.8943 E

Table: Water 2 – Stormwater Discharge Criteria

Site Name	Location	WQ Parameter	Release Limit	Limit Type
Stormwater pond sample point	W1	Electrical Conductivity	1500 µS/cm	Maximum
		pH	6.5-9.0	Range

DEFINITIONS

Words and phrases used throughout this permit[1] are defined below. Where a definition for a term used in this permit[1] is sought and the term is not defined within this permit[1] the definitions provided in the relevant legislation shall be used.

"administering authority" means the Environmental Protection Agency or its successor.

"annual return" means the return required by the annual notice (under section 316 of the *Environment Protection Act 1994*) for the section 73F registration certificate that applies to the development approval.

"authorised place" means the place authorised under this development approval for the carrying out of the specified environmentally relevant activities.

"commercial place" means a place used as an office or for business or commercial purposes.

"development approval" means development approval as defined under the *Sustainable Planning Act 2009*.

"dwelling" means any of the following structures or vehicles that is principally used as a residence –

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

"$L_{A\ 10,\ adj,\ 10\ mins}$" means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

"$L_{A\ 1,\ adj,\ 10\ mins}$" means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

"land" in the "land schedule" of this document means land excluding waters and the atmosphere.

"noxious" means harmful or injurious to health or physical well being.

"nuisance sensitive place" includes –

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

"offensive" means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.

"site" means land or tidal waters on or in which it is proposed to carry out the development approved under this development approval.

"watercourse" means a river, creek or stream in which water flows permanently or intermittently-

- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

"waters" includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part-thereof.

END OF CONDITIONS

ecoaccess
environmental licences and permits

Registration certificate

Environmental Protection Act 1994

Certificate of Registration

No: ENRE00993209

This registration certificate is issued by the administering authority and takes effect from 12 November 2009.

The anniversary day for the purposes of the Annual Return is 12 November.

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activity listed below at the following place subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-

Origin Energy Power Limited
Level 45, Australia Square
264 - 278 George Street,
SYDNEY NSW 2000

Place:-

Lot 121 Plan SP178856.

Located at:-

Grahams Road,WARRA QLD 4411.

Registered Activity: -

ERA 14 Electricity generation Threshold 1 - generating electricity by using gas at a rated capacity of 10MW electrical or more.

Jodie Brackenbury
Delegate
Administering authority
Environmental Protection Act 1994
12 November 2009

This is a true copy of the permit/decision document originally issued.

..... Date 26/9/11

Linda Gorman.