



Amalgamation Report

Licence Number L6637/1995/15

Licence Holder Electricity Generation and Retail Corporation T/A Synergy

File Number: DER2015/000109-3

Premises details Collie 'A' Power Station
Boys Home Road
PALMER WA 6225
Being Part of Lot 3001 on Plan 51101

Date of Amalgamation 13 May 2020

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 12: Screening, etc. of material	1.2 million tonnes of coal per annual period
Category 52: Electric power generation	340 MW
Category 53: Flyash disposal	120,000 tonnes per annual period
Category 61: Liquid waste facility	1,862,000 tonnes per annual period

Chris Malley

A/Manager, Process Industries

an officer delegated under section 20 of the *Environmental Protection Act 1986 (WA)*

Definitions and interpretation

Definitions

In this Amendment Report, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Amalgamation Report	refers to this document
Amendment Notice	is a notice of amendment to the Licence
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	<p>Chief Executive Officer of the Department of Water and Environmental Regulation</p> <p>CEO for the purposes of notification means: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919</p> <p>or: info@dwer.wa.gov.au</p>
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act
DWER	Department of Water and Environmental Regulation
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
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

Premises and amalgamation description

This amalgamation is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the Licence issued under the EP Act for a prescribed premises as set out below.

The Delegated Officer initiated an amendment to the type and style of the licence and issued a revised licence consolidating changes made under Amendment Notices issued between 2016 to 2019 (as detailed in the instrument log below), where relevant. During the consolidation of this amendment; DWER has not undertaken any additional risk assessment of emissions and discharges from the Premises.

In consolidating the licence, the Delegated Officer has:

- updated the format and appearance of the Licence;
- deleted the redundant AACR form set out in Schedule 1 of the previous licence and advise the Licensee to obtain the form from the Department's website;
- revised licence condition's numbers, and removed any redundant conditions and realigned condition numbers for numerical consistency; and
- corrected clerical mistakes and unintentional errors.

The following guidance statements have informed the decision made on this amendment:

- *Guidance Statement: Regulatory Principles* (July 2015)
- *Guidance Statement: Decision Making* (June 2019)

Collie A Power Station (Collie A) is a 340 Megawatts electric (MWe), single generation unit, coal fired thermal power station located approximately 10 km east of the town of Collie. The power station has been in operation since 1999 and is owned by Synergy. Electricity generated at this facility supplies customers via the South-West Interconnected System (SWIS).

Pre-crushed coal is delivered to Collie A via an overland conveyor from the Premier Coal Mine, approximately 6 km south east. Coal is transferred from the stockpiles to the Power Block where it is fed into a boiler with low Nitrogen oxide (NOx) burners. Coal is burnt in the boiler with the resultant heat being used to heat circulating water to generate steam. High pressure steam is then directed to a turbine hall to spin a single turbine which generates power. Steam exhausted from the turbine is cooled in a condenser and returned to the boiler for reuse.

The primary emissions within the exhaust gases include carbon monoxide (CO), carbon dioxide (CO₂), sulfur dioxide (SO₂), NOx and particulate matter with minor emissions of metals and organics. Waste water is treated on site and approximately 65% of the treated water is reused on site with the remainder being discharged via the 68 km underground ocean outfall pipeline north of the Leschenault Inlet. The water is discharged through a diffuser at a depth of 10 m approximately 710 m offshore.

The fly ash is mixed with water to form a slurry and discharged to the Ash Storage Dam on the premises. Bottom ash is collected and intermittently trucked to the Ash Storage Dam. Decant water from the Ash Storage Dam is collected in a lined pond and returned to the power station for reuse or treatment and disposal.

Collie A has been assessed under Part IV of the *Environmental Protection Act 1986* and is subject to conditions of Ministerial Statements 146 and 394. Ministerial Statement conditions require the development and implementation of an Environmental Management Plan which outlines monitoring, management and auditing requirements for atmospheric, noise and greenhouse gas emissions, vegetation protection, water supply, social amenity and solid and liquid waste discharges.

Amendment history

This section provides an overview of the history of the licence relating to L6637/1995/15.

Reference number	Date	Summary of changes
L6637/1995/15	10/10/2014	DER initiated amendment to convert licence to new REFIRE format, authorise operation of Ash Storage Dam cell 1A embankment raise and incorporate requirements of Appeal Determination 2633/11.
L6637/1995/15	29/04/2016	Department initiated amendment to extend the duration of licence.
L6637/1995/15	02/06/2016	Licensee initiated amendment to revise licence limits for discharge to surface water via the ocean outfall.
L6637/1995/15	06/01/2017	Amendment Notice 1: Registered business address changed from Australia Place, 11th Floor, 15-17 William Street, Perth WA 6000 to Forrest Centre, 219 St Georges Terrace, Perth WA 6000.
L6637/1995/15	26/10/2017	Amendment Notice 2: Licence Holder initiated amendment to construct a 3 m embankment raise on Ash Storage Dam Cell 2B and to increase the approved throughput capacity for the disposal of flyash from 95,000 tonnes per annum to 120,000 tonnes per annum.
L6637/1995/15	30/04/2018	Amendment Notice 3: Licence Holder initiated amendment to allow the burial of up to 20, 000 tonnes of fly ash from Bluewaters Power station within the Ash storage cell 2A.
L6637/1995/15	18/01/2019	Amendment Notice 4: Licence Holder applied to have the following administrative amendments made to the Licence: <ul style="list-style-type: none"> • Table 1.3.1 – Containment infrastructure for the Fly ash and bottom ash dam (Reference point C2) to include sludge from the water treatment and saline collection processes, • Table 3.3.1 – The units for dissolved oxygen should be in mg/L, rather than percentage.
L6637/1995/15	29/04/2019	Amendment Notice 4 Licence Holder initiated amendment to remove the Licence Condition 3.2.2 was amended by the removal of text ' <i>sampling location</i> '.
L6637/1995/15	21/05/2019	Amendment Notice 4 was amended by the removal of entire condition 3.2.2 initiated by the Licence Holder.
L6637/1995/15	13/05/2020	DWER initiated revision of the licence to amalgamate previous issued amendment notices between 2016 to 2019.

Decision

The Delegated Officer has decided to grant the amended licence as the amalgamation of the Licence is administrative only to amalgamate previous amendment notices onto one consolidated licence.

Licence Holder's comments

The Licence Holder was provided with the draft licence on 25 June 2019. Comments received from the Licence Holder have been considered by the Delegated Officer as shown in Appendix 2.

Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence: L6637/1995/15 – Collie ‘A’ Power Station	A1798769	accessed at www.dwer.wa.gov.au
2	Decision Report: L6637/1995/15 – Collie ‘A’ Power Station	A1818557	
3	Amendment Notice 1 (6 January 2017): Licence L6637/1995/15 – Collie ‘A’ Power Station	A1818557	
4	Amendment Notice 2 (26 October 2017): Licence L6637/1995/15 – Collie ‘A’ Power Station	A1818559	
5	Amendment Notice 3 (30 April 2018): Licence L6637/1995/15 – Collie ‘A’ Power Station	A1744359	
6	Amendment Notice 4 (18 January 2019): Licence L6637/1995/15 – Collie ‘A’ Power Station	A1798771	
7	Amendment Notice 4 (29 April 2019): Licence L6637/1995/15 – Collie ‘A’ Power Station	A1818563	
8	Amendment Notice 4 (21 May 2019) Licence L6637/1995/15 – Collie ‘A’ Power Station	A1790705	
9	DER, July 2015. <i>Guidance Statement: Regulatory Principles</i> . Department of Environment Regulation, Perth.	DER 2015a	accessed at www.dwer.wa.gov.au
10	DWER, June 2019. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.	DWER 2019a	

Appendix 2: Summary of Licence Holder comments

The Licence Holder was provided with the draft licence on 25 June 2019 for review and comment. The Licence Holder responded on 1 August 2019. The following comments were received on the draft licence.

Condition	Summary of Licence Holder comment	DWER response
Premises Description and Licence summary	Only the flyash is slurried with water. Suggest that we use original wording.	This has been rectified in the licence.
Second paragraph on page 4 of draft licence under Premises Description and Licence summary	Is this paragraph still necessary?	This paragraph has been removed as it referred to a previous amendment completed in 2016.
Fourth paragraph on page 4 of draft licence under Amendment February 2020	Updated the style.	This is generic template wording which will be retained.
Fourth paragraph on page 4 of draft licence under Amendment February 2020	Suggested wording change to '... previously set out in Schedule 2 of the licence. The licensee'	This is generic template wording which will be retained.
Table 3.3.1: Monitoring of point source emissions to surface water	The horizontal dividing line is not required. All materials from sodium to zinc are tested quarterly.	Table 3.3.1 in the licence has been corrected.
Table 3.4.1: Process monitoring	Table incorrect. From pH to sulphate should be quarterly and from calcium to zinc should be annually.	Table 3.4.1 in the licence has been corrected to reflect monitoring frequency.
Table 3.5.2: Monitoring of marine biota (mussels)	Table 3.5.2 is missing. Is this testing no longer required or is it just an omission? If not required, tables should be renumbered.	DWER notes this was an omission. This table has been numerically corrected to 3.5.3 and the table relating to monitoring of marine biota has been reinstated in the licence.
Table 3.5.5: Monitoring of ambient groundwater quality	Arsenic and selenium only required annually.	Table 3.5.4 in the licence has been corrected.
Table 3.5.5: Monitoring of ambient groundwater quality	Should be annual monitoring.	Table 3.5.4 in the licence has been corrected.
Schedule 1: Map	'Additional wording regarding the boundary and exclusion of Flyash Australia Operation ... is missing'	The premises map has been updated to include the required wording for clarification purposes.