



## Application for Works Approval

### Part V Division 3 of the *Environmental Protection Act 1986*

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<b>Works Approval Number</b>	W6415/2020/1
<b>Applicant</b>	APA Power Holdings Ptd Ltd
<b>ACN</b>	149 762 121
<b>File Number</b>	DER2020/000261
<b>Premises</b>	Gruyere Power Station Part of mining tenement M38/1267  COSMO NEWBERRY WA 6440 As defined by the coordinates in Schedule 1 of the Works Approval
<b>Date of Report</b>	7 September 2020
<b>Decision</b>	Works approval granted

Peter Knol  
Senior Environmental Officer, Process Industries  
INDUSTRY REGULATION

*An officer delegated by the CEO under section 20 of the EP Act*

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## 1. Decision summary

This Decision Report documents the assessment of potential risks to the environment and public health from emissions and discharges during the construction and operation of infrastructure at the Gruyere Power Station (Premises). As a result of this assessment, Works Approval W6415/2020/1 has been granted.

## 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this Decision Report, the Delegated Officer has considered and given due regard to the Department of Water and Environmental Regulation's (department) Regulatory Framework and relevant policy documents which are available at <https://www.dwer.wa.gov.au>.

### 2.2 Application summary and overview of Premises

On 24 June 2020, the APA Power Holdings Ptd Ltd (Applicant) submitted an application for a works approval to the department under section 54 of the *Environmental Protection Act 1986* (EP Act).

The Applicant has previously been granted a works approval (W6002/2016/1) to develop an open pit mining operations to extract and process gold at the Premises, approximately 160 km north-east of Laverton. The Premises are licenced under L9153/2018/1.

The application is for the construction of two additional Jenbacher J624, 4.4 MW reciprocating gas engine generators at the Premises. The proposed generators are identical to the eleven that were previously deemed to be acceptable technology and installed at the Premises under Works Approval (W6002/2016/1) and licenced by licence L9153/2018/1. The generators are gas fired with 2-staged turbocharged engines with high output density of 1,500 rpm. Each will be fitted with an emission stack located 12.5 m above ground level (AGL).

The Premises fall under category 52: electric power generation and with the two new generators will have 58.4 MW assessed capacity.

## 3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guidance Statement: Risk Assessments* (DER 2017).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

### 3.1 Source-pathways and receptors

#### 3.1.1 Receptors

In accordance with the *Guidance Statement: Risk Assessment* (DER 2017), the Delegated Officer has excluded employees, visitors and contractors of the applicant's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 1 and Figure 1 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from

the prescribed premises (*Guidance Statement: Environmental Siting* (DER 2016)).

**Table 1: Sensitive human and environmental receptors and distance from prescribed activity**

Human receptors	Distance from prescribed activity
Cosmo Newbery Mission	Approximately 90 km north-west of premises
Employee and contractor village	Approximately 7 km from premises
Environmental receptors	Distance from prescribed activity
DBCA Managed Lands and Waters	Yeo Lake Nature Reserve boundary is located about 17 km east
Threatened Ecological Communities and Priority Ecological Communities	There are no Threatened Ecological Communities or Priority Ecological Communities within a 30 km radius of the premises
Declared Rare Flora	There are no Declared Rare Flora within a 20 km radius of the premises.

### 3.1.2 Emissions and controls

The key emissions and associated actual or likely pathway during premises operation which have been considered in this Decision Report are detailed in Table 2 below. Table 2 also details the proposed control measures the applicant has proposed to assist in controlling these emissions, where necessary.

**Table 2: Emission source, pathway and Applicant controls**

Emission	Sources	Potential pathways	Proposed controls
<b>Construction</b>			
Dust	Vehicle movement on unsealed access roads. Earthworks, construction of plant and equipment	No reasonable pathway to sensitive receptors.	Vehicles and mining equipment will be kept to defined roads. Dust will be managed by watering unsealed roads with a water cart or fixed sprays.
Noise	Earthworks, construction of plant and equipment		All vehicles and plant equipment will be regularly maintained to ensure they are operating efficiently and are not unduly noisy.
<b>Commissioning</b>			
Gas emissions	Commissioning of new generators	No reasonable pathway to sensitive receptors.	Energy efficiency and greenhouse gas emissions will be considered as part of equipment selection and purchase

Emission	Sources	Potential pathways	Proposed controls
Noise	Commissioning of new generators		Engines and generators will incorporate exhaust mufflers and other sound attenuating measures, operated and serviced in accordance with the manufacturer's specifications.
<b>Operation</b>			
Gas emissions	Operation of two 4.4 MW generators	No reasonable pathway to sensitive receptors.	Generator sets will be maintained and serviced to manufacturer's specifications to ensure efficient running and optimum fuel consumption, thereby minimising exhaust emissions.
Noise	Operation of two 4.4 MW generators		Engines and generators will incorporate exhaust mufflers and other sound attenuating measures, operated and serviced in accordance with the manufacturer's specifications.  The site induction will provide information on the requirements for and appropriate use of PPE

### 3.1.3 Review of risk events

The Delegated Officer concluded based upon the assessment of source, pathway and negative impact on a receptor that there are no risk events to assess for this proposal. This view was established due to the large separation distance to receptors and therefore a lack of credible pathway from an emission source. The technology used, albeit not technology with the lowest NO<sub>x</sub> emissions, is deemed acceptable at this location, also given the fact that these generators have been previously approved.

## 4. Consultation

Table 3 provides a summary of the consultation undertaken by the department.

**Table 3: Consultation**

Consultation method	Comments received	Department response
Application advertised on the department's website (28 July 2020)	None received	N/A
Local Government Authority advised of proposal (28 July 2020)	None received	N/A
Applicant was provided with draft documents on 25 August 2020.	Applicant responded on 4 September requesting the remainder of their review period be waived and that the instrument be issued as soon as possible. No comments regarding the content of the draft documents were made.	N/A

## 5. Conclusion

Based on the assessment in this Decision Report, the Delegated Officer has determined that a works approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements. Licence L9153/2018/1 will need to be amended to modify Table 2 to include the two additional Jenbacher gas engine generators and exhaust emission sources on the Premises layout maps in Schedule 1. Administrative corrections to Schedule 2 will also be done as the incorrect category is mentioned there.

To allow the two new generators to be used prior the licence amendment a condition in the works approval will be added to allow for time limited operation of the two new generators.

## References.

1. Department of Environment Regulation (DER) 2016, Guidance Statement: Environmental Siting, Perth, Western Australia.
2. DER 2017, Guidance Statement: Risk Assessments, Perth, Western Australia.
3. DER 2015, Guidance Statement: Setting Conditions, Perth, Western Australia.
4. APA Power Holdings Gruyere Gold Project, Part V Works Approval Supporting Document, Report Reference: APAGPWA, dated 11 June 2020

## Schedule 1: Maps

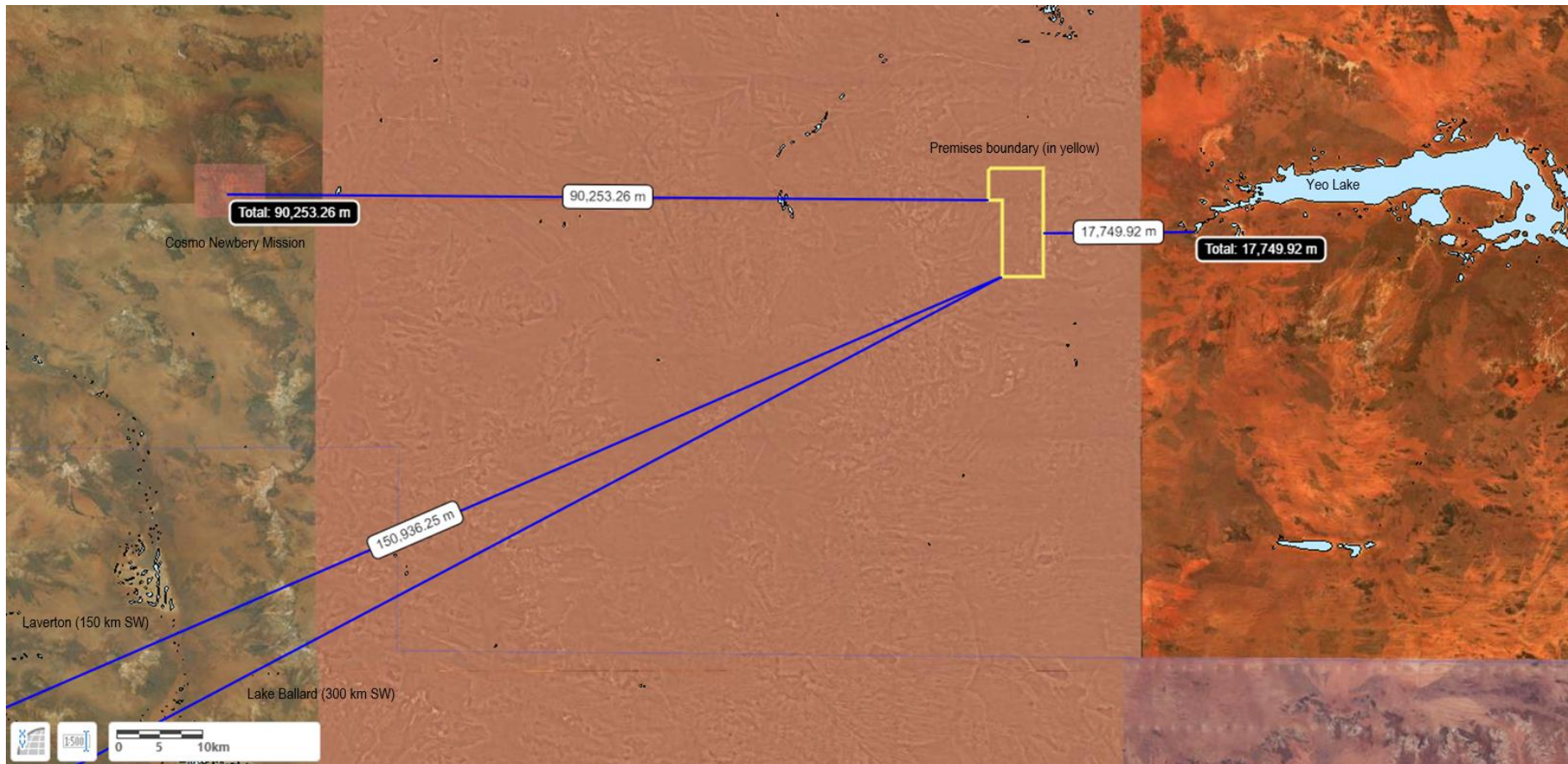


Figure 1: Distance to sensitive receptors

## Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY		
<b>Application type</b>		
Works approval	<input checked="" type="checkbox"/>	W6415/2020/1
Date application received	24 June 2020	
<b>Applicant and Premises details</b>		
Applicant name/s (full legal name/s)	APA Power Holdings Pty Ltd	
Premises name	Gruyere Gold Project	
Premises location	Mining tenement M/38/1267	
Local Government Authority	Shire of Laverton	
<b>Application documents</b>		
HPCM file reference number:	DER2020/000261, DWERDT299420	
Key application documents (additional to application form):	Hydrogeology summary Flora and fauna analysis	
<b>Scope of application/assessment</b>		
Summary of proposed activities or changes to existing operations.	Works approval - Construction of two Jenbacher J624, 4.4 MW reciprocating gas engine generators.	
<b>Category number/s (activities that cause the premises to become prescribed premises)</b>		
<b>Table 1: Prescribed premises categories</b>		
<b>Prescribed premises category and description</b>	<b>Proposed production or design capacity</b>	
Category 52: Electric power generation	Existing gas station net capacity 46.7 MW Existing diesel station net capacity 3.2 MW (2 x 1.6 MW) <b>New additional gas engines net capacity 8.5 MW (2 x 4.24 MW)</b> <b>Total station capacity 58.4 MW</b>	
<b>Legislative context and other approvals</b>		
Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	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"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No:



<p>Has the applicant demonstrated occupancy (proof of occupier status)?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Certificate of title <input type="checkbox"/>          General lease <input type="checkbox"/> Expiry:          Mining lease / tenement <input checked="" type="checkbox"/>          Expiry: 4 May 2037          Other evidence <input type="checkbox"/> Expiry:</p>
<p>Has the applicant obtained all relevant planning approvals?</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/></p>	<p>Approval:          Expiry date:          If N/A explain why? Proposed works fall within scope of existing approved mining proposal.</p>
<p>Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>CPS No:</p>
<p>Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Application reference No:          Licence/permit No: MS 1048          Areas precleared in accordance with Mining Proposal 63733 and Mining Proposal/Mine Closure Plan 67934.</p>
<p>Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Application reference No:          Licence/permit No:          Licence / permit not required.</p>
<p>Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Name:          Type:          Has Regulatory Services (Water) been consulted?          Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>          Regional office:</p>
<p>Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Name:          Priority:          Are the proposed activities/ landuse compatible with the PDWSA (refer to <a href="#">WQPN 25</a>)?          Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/></p>
<p>Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx</i>)</p>	<p>Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/></p>	

Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	