



Application for Licence Amendment

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

Licence Number	L8579/2011/2
Licence Holder	AngloGold Ashanti Australia Limited
ACN	008737424
File Number	APP-0033067
Premises	Sunrise Dam Gold Mine Bindah Road Laverton WA As defined by the Premises maps attached to the Revised Licence
Date of Report	12/02/2026
Decision	Revised licence granted

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1. Decision summary

Licence L8579/2011/2 is held by AngloGold Ashanti Australia Limited (Licence Holder) for the Sunrise Dam Gold Mine (the Premises), located in the shire of Laverton.

This Amendment Report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the construction and operation of the Premises. As a result of this assessment, Revised Licence L8579/2011/2 has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Amendment Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

2.2 Application summary

On 23 December 2025, the Licence Holder submitted an application to the department to amend Licence L8579/2011/2 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Installation and operation of four 1.1 Mega Watt (MW) power generators

This amendment is limited only to changes to Category 52 activities from the Existing Licence. No changes to the aspects of the existing Licence relating to Category 5, 6, 54, 57, 64 have been requested by the Licence Holder. Table 1 below outlines the proposed changes to the existing Licence.

Table 1: Proposed design or throughput capacity changes

Category	Current design throughput capacity	Proposed design throughput capacity	Description of proposed amendment
5	5 500 000 tonnes per year	No change	No change
6	5 000 000 tonnes per year	No change	No change
52	48 mega watts	52.4 mega watts	Installation and operation of 4.4 MW of power generation.
54	250 m ³ per day	No change	No change
57	1 000 tyres	No change	No change
64	10 000 tonnes per year	No change	No change

2.3 Premises overview

The premises comprises of an open pit and underground mining operation and conventional carbon in leach (CIL) process plant that processes with gold bearing ore onsite. The site is powered by 48 MW of power from a combination of 18 gas fuelled generators and 11 diesel fuelled generators.

The underground mine operation during the summer months experience high air temperatures that creates unsafe working conditions for personnel. As such, more power is required to power a refrigeration plant to pump cool air into the underground workings via the underground ventilation system.

2.3.1 Power Generation

To operate the chiller units, a power station providing a total of 4.4 MW of power is proposed. The refrigeration plant (inclusive of the power plant) will be installed within Cleo Open pit near to the Western Shear Portal, with power being delivered up the open pit ramp to the “Bat Cave” Portal. The power plant is modular and will comprise of:

- 4 x 1.1 MW Aggreko NHC20/GSK504 diesel fuelled generators;
- 1 x 20 ft self-bunded lube store (containing up to 2000 L of oil and 100 L of coolant);
- 30,000 L self-bunded diesel tank; and
- 2 x switch rooms.

The licence holder notes that the units will only be utilised for a nominal 26 weeks per year during summer for two years and therefore do not propose emissions testing.

The expected emissions for the 1 MW diesel fuelled generators is summarised below:

- Carbon Monoxide (5% O²) – concentration range of 0.643 – 0.724 g/kWh
- Nitrogen Oxides 5% O²) - concentration range of 5.762 – 7.772 g/kWh
- Particulate Matter - concentration range of 0.054 -0.040 g/kWh

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 *Guideline: Risk assessments* (DWER 2020).

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 Emissions and controls

The key emissions and associated actual or likely pathway during premises construction and operation which have been considered in this Amendment Report are detailed in

Table below.

Table also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

Table 2: Licence Holder controls

Emission	Sources	Potential pathways	Proposed controls
Dust	Installation of modular power generation and refrigeration	Air/windborne pathway	Located within Cleo Pit.

Emission	Sources	Potential pathways	Proposed controls
	components		
Noise	Operation of power generation	Air/windborne pathway	Located within Cleo Pit
Hydrocarbons	Diesel tanks Lube Store	Seepage to soils and groundwater	Double skinned; and Located within Cleo pit which has been dewatered.
Air emissions – NOx, CO, PM etc.	Operation of power generation	Air/windborne pathway	Power station to be operated for a nominal 26 weeks per year; and Generator stacks are 2.6m high.

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Licence Holder'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 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 (*Guideline: Environmental siting* (DWER 2020)).

Table 3: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity
<i>Town of Laverton</i>	<i>~50km from prescribed activity (screened out)</i>
Environmental receptors	Distance from prescribed activity
Native vegetation	2.1 km east
Groundwater	Overlaps the premises. Dewatered to a depth of 104 meters below ground level (265 m AHD).

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the licence holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Licence Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

Additional regulatory controls may be imposed where the licence holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in .

The Revised Licence L8579/2011/2 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises i.e. Category 52 activities; power generation.

The conditions in the Revised Licence have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

Table 4. Risk assessment of potential emissions and discharges from the Premises during construction and operation

Risk Event					Risk rating ¹ C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls/ DWER comments
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
Construction								
Installation of the refrigeration plant power station	Dust	Pathway: Air/windborne pathway Impact: Smothering of leaves leading to stress or death	Native vegetation	Refer to Section 3.1	C = Slight L = Rare Low Risk	Y	N/A	Minimal dust emissions are expected. No regulatory controls required.
Operation								
Diesel fuel tank / lube store	Hydrocarbons	Pathway: Direct discharge to land / Seepage through ground Impact: Contamination of soil / groundwater	Groundwater	Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Y	Condition 1: construction requirements	Licence Holder's proposed controls have been conditioned in the licence.
Operation of the power station	Air Emissions – NOx, CO, PM	Pathway: Air/windborne pathway Impact: Health & Amenity	Town of Laverton	Refer to Section 3.1	C = Slight L = Rare Low Risk	N/A	N/A	No pathway to human receptors due to distance.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

Note 2: Proposed Licence Holder's controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

4. Consultation

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

Table 5: Consultation

Consultation method	Comments received	Department response
Licence holder was provided with draft amendment on 11/02/2026	Minor comments on fixing up typographical errors. Comment period waived.	Errors corrected.

5. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised Licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

5.1 Summary of amendments

Table provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Licence as part of the amendment process.

Table 6: Summary of licence amendments

Condition no.	Proposed amendments
Cover	Category 52 updated to 52.4 MW
1, table 1	Added diesel tanks, 4 1.1 MW generators and 1 x 20 ft self-bunded lube store.
19, table 8	Added Refrigeration Plant Power Station – 4 engines.
Schedule 1	Added new Figure 11

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.