



## Application for Works Approval

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

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**Works Approval Number** W6877/2024/1

**Applicant** Metso Australia Pty Ltd

**ACN** 000 197 428

**File number** DER2023/000750

**Premises** Bedrock Turn  
GAP RIDGE WA 6714

Legal description

Lot 122 on Deposited Plan 424552

As defined by the premises maps attached to the issued works approval

**Date of report** 3 April 2024

**Decision** Works approval granted

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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 the premises. As a result of this assessment, works approval W6877/2024/1 has been granted.

## 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this decision report, the Department of Water and Environmental Regulation (the department; DWER) has considered and given due regard to its regulatory framework and relevant policy documents which are available at [DWER Regulatory documents | Western Australian Government \(www.wa.gov.au\)](https://www.wa.gov.au/government/publications/dwer-regulatory-documents).

### 2.2 Application summary and overview of premises

On 21 November 2023, Metso Australia Pty Ltd (the applicant) submitted an application for a works approval to the department under section 54 of the *Environmental Protection Act 1986* (EP Act).

The application is to undertake construction works relating to establishment of a metal coating facility (spray painting booth) at Lot 122 on Deposited Plan 424552 Bedrock Turn, Gap Ridge (the premises). The premises is located approximately three kilometres southwest of Karratha in the Gap Ridge light industrial area.

The premises relates to the category 81: metal coating with an assessed production capacity of 2,000 litres per year under Schedule 1 of the Environmental Protection Regulations 1987 (EP Regulations) which are defined in works approval W6877/2024/1. The infrastructure and equipment relating to the premises category and any associated activities which the department has considered in line with *Guideline: Risk Assessments* (DWER 2020) are outlined in works approval W6877/2024/1.

The applicant proposes to construct a workshop, spray paint booth, screen test rig, blast booth and truck washbay on the premises.

Metal coating by way of spray painting is a prescribed activity under the Environmental Protection Regulations 1987. Spray painting infrastructure proposed to be established at the southern end of the premises includes a fully enclosed spray booth which will meet AS/NZS 4114:2020 – *Spray painting booths, designated spary painting area and paint mixing rooms*. Emissions from the spray booth will be extracted via filtration to a discharge stack which discharges at a height of greater than 6 m above ground level.

Paint will be stored in a dangerous goods cabinet with a maximum volume of 300 L. Residual paint, dissolved with thinners, and solvent waste will be drained into barrels and disposed of by a waste disposal contractor.

## 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 decision report are detailed in Table 1 below. Table 1 also details the control measures the applicant has proposed to assist in controlling these emissions, where necessary.

**Table 1: Proposed applicant controls**

Emission	Sources	Potential pathways	Proposed controls
<b>Construction</b>			
Dust	Construction of the metal coating booth	Air / windborne pathway	No controls proposed
Noise			
<b>Operation</b>			
Noise	Operation of the metal coating booth	Air / windborne pathway	No controls proposed
Paint odours			Spray booth will be fitted with a filtered extraction system which discharges via a stack at a height of 6.28 metres above ground level with exit velocity of 16 metres per second.
Paint overspray			Paint booth will be fully enclosed. Booth and filtered extraction system to be constructed in accordance with <i>AS/NZS4114:2020 Spray painting booths, designated spray painting areas and paint mixing rooms.</i>
Contaminated water or paint spillage		Direct discharge to land causing soil contamination	Paint booth will be fully enclosed and constructed atop a concrete slab. Paint will be stored in a dangerous goods cabinet (300 L capacity). Residual paint, dissolved with thinners, and solvent waste will be drained into barrels and disposed of by a waste disposal contractor.

### 3.1.2 Receptors

In accordance with the *Guideline: Risk Assessment* (DWER 2020), the Delegated Officer has excluded the applicant's employees, visitors, and contractors from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 2 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 2: Sensitive human and environmental receptors and distance from prescribed activity**

Human receptors	Distance from prescribed activity
Temporary Accommodation Facilities (The CAV and Civeo Karratha Village)	Approximately 1.5 km and 2 km northeast of the premises boundary.
Closest residential premises (Coorbeelie Street, Baynton)	Approximately 2.5 km northeast of the premises boundary.
Commercial / Industrial premises	Adjacent to the premises.
Environmental receptors	Distance from prescribed activity
Aboriginal and other heritage sites (1 registered site and 3 other heritage sites within 1 km of the premises).	180 m southeast of the premises.
7 mile creek	Approx. 800 m east of the premises.

### 3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for each identified emission source and take into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the applicant 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 applicant's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the works approval as regulatory controls.

Additional regulatory controls may be imposed where the applicant's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

Works approval W6877/2024/1 that accompanies this decision report authorises construction only. The conditions in the issued works approval, as outlined in Table 3 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A risk assessment for the operational phase has been included in this decision report, however the applicant must apply for a registration following completion of the construction works to authorise emissions associated with the operation of the premises i.e. metal coating activities. The premises will also be required to operate in accordance with the Environmental Protection (Metal Coating) Regulations 2001.

**Table 3: Risk assessment of potential emissions and discharges from the premises during construction and operation**

Risk events					Risk rating <sup>1</sup>	Applicant controls sufficient?	Conditions <sup>2</sup> of works approval	Reasoning
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C = consequence L = likelihood			
<b>Construction</b>								
Construction and installation of the metal coating booth	Noise	Air/windborne pathway causing impacts to health and amenity	Commercial / Industrial premises adjacent / surrounding the premises.  Closest residence is approximately 1.5 km from the premises boundary	None	C = Slight L = Rare <b>Low Risk</b>	NA	NA	The delegated office does reasonably not foresee receptors being impacted due to the separation distance, the nature of the works requiring minimal ground disturbance and the works occurring within an industrial area.  The provisions of the Environmental Protection (Noise) Regulations 1997 are also applicable.
	Dust							
<b>Operation</b>								
Paint booth – metal coating operations	Noise	Air / windborne pathway causing impacts to amenity	Commercial / Industrial premises adjacent / surrounding the premises.  Closest residence is approximately 1.5 km from the premises boundary	None	C = Slight L = Rare <b>Low Risk</b>	NA	NA	The delegated office does reasonably not foresee receptors being impacted due to the separation distance and nature of noise associated with the spray-painting activity.  The provisions of the Environmental Protection (Noise) Regulations 1997 apply to the activities on the premises.
	Paint fumes, overspray and odour	Air / windborne pathway causing impacts to health and amenity						

Risk events					Risk rating <sup>1</sup>	Applicant controls sufficient?	Conditions of works approval <sup>2</sup>	Reasoning
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C = consequence L = likelihood			
	Contaminated water or paint	Direct discharge to land causing contamination of soils	Land within the premises.	Refer to Section 3.1	C = Minor L = Rare <b>Low Risk</b>	Y	NA	Given a maximum of 300 litres of paint and solvent will be stored in a dangerous goods cabinet to supply the paint booth which will be enclosed the delegated officer does not reasonably foresee that contamination is likely to occur as a result of metal coating activities on the premises.

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

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

Note 3: Conditions 2-6 are all department imposed conditions required for compliance reporting and general complaint and record keeping requirements

## 4. Consultation

Table 4 provides a summary of the consultation undertaken by the department.

**Table 4: Consultation**

Consultation method	Comments received	Department response
Application advertised on the department's website on 13 February 2024	None received	N/A
Local Government Authority advised of proposal on 13 February 2024	The City of Karratha replied on 19 February 2024 advising that the development was approved 22 June 2022 however two amended approvals have been issued since, the most recent of which was 2 November 2023. Any works conducted should comply with the most recent development approval.	The delegated officer noted this advice.
Applicant was provided with draft documents on 21/3/2024	The applicant replied 27/3/2024 advising that they accept the draft and waive the remaining comment period	N/A

## 5. Decision

The delegated officer has determined that the proposal to construct a paint booth on the premises does not pose an unacceptable level of risk to public health or the environment. This determination is based on the following:

- The spray booth will be constructed in accordance with the Australian/New Zealand Standard 4114.2020 Spray painting booths, designated spray-painting areas, and paint mixing rooms, the applicable standard as per the Environmental Protection (Metal Coating) Regulations 2001.
- The location of the spray booth is in an industrial area remote therefore there is sufficient separation distance to residential receptors to minimise the likelihood of adverse off-site impacts from the construction and operation of the proposed infrastructure.

The premises will be required to submit an application for registration under section 5B of the EP Regulations for category 81 metal coating upon completion of construction and submission of an Environmental Compliance Report in accordance with the requirements of the works approval. The requirements of the Environmental Protection (Metal Coating) Regulations 2001 will apply to the operation of the premises.

The facility will also include an abrasive blasting booth. Abrasive blasting is not a prescribed activity under the EP Regulations but it is subject to the Environmental Protection (Abrasive Blasting) Regulations 1998.

## 6. 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.

## 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.
4. Metso Australia Pty Ltd 2023, Application for a Works Approval Perth Western Australia
5. 360 Environmental 2023, Works Approval Supporting Information, Perth Western Australia.