



## Application for Works Approval Amendment

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

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<b>Works Approval Number</b>	W6877/2024/1
<b>Works Approval Holder</b>	Metso Australia Pty Ltd
<b>Application Number</b>	APP-0028155
<b>Premises</b>	Metso Karratha Service Centre 122 Bedrock Turn GAP RIDGE WA 6714
<b>Date of report</b>	26 August 2025
<b>Status of report</b>	Final

## 1. Decision summary

Works Approval W6877/2024/1 is held by Metso Australia Pty Ltd (works approval holder) for a spray-painting facility (the premises), located at Lot 122 Bedrock Turn, Gap Ridge.

This 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, an amendment to W6877 has been granted.

## 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this 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 21 March 2025, the works approval holder submitted an application to amend W6877 to remove the requirement to construct a booth according to AS/NZS4114:2020 and change approval from a paint booth to designated spray paint area.

In order to meet the requirements of AS/NZS4114:2020, the works approval holder advised it will be required to construct a spray booth which is too small to contain the products that require painting. Regulation 4 of the Environmental Protection (Metal Coating) Regulations 2001 states:

*An operator must carry on all spray painting in a spray painting booth unless such a booth cannot reasonably be used because of the size, shape, position, or location of the object being painted.*

The works approval holder has instead proposed a designated spray painting area, which will consist of a dome shelter and a ventilation system.

The dome shelter will be cyclone-rated, measuring 6 metres long by 8 metres wide. The front entrance will have sliding doors, however, some of the items to be painted will protrude beyond the doors and, at these times, they will be open during operation.

The ventilation system will discharge vertically 3 metres above the cargo container roof at a velocity of 10m/s. Filters will capture any particulates before they enter the ventilation system. Audible and visual alarms will be activated if CO<sub>2</sub> reaches hazardous levels.

## 3. Consultation

The application was referred to the Shire of Roebourne, who did not raise any objections to the proposed changes.

## 4. 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.

## 4.1 Source-pathways and receptors

### 4.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises construction and operation which have been considered in this report are detailed in Table 1 below. Table 1 also details the proposed control measures the works approval holder has proposed to assist in controlling these emissions, where necessary.

**Table 1: Works Approval Holder controls**

Emission	Sources	Potential pathways	Proposed controls
Construction			
Dust	Construction of the spray painting area	Air / windborne pathway	No controls proposed
Noise			
Operation			
Noise	Operation of the spray painting area	Air / windborne pathway	No controls proposed
Paint odours			Spray area 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 10 metres per second.
Paint overspray			Paint area will be fully enclosed except when the size and/or shape of the object to be sprayed requires that the doors be open.
Contaminated water or paint spillage		Direct discharge to land causing soil contamination	Paint area will be fully enclosed and constructed on 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.

### 4.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the delegated officer has excluded employees, visitors and contractors of the works approval 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 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**

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.

## 4.2 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 4.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the works approval holder has proposed mitigation measures/controls (as detailed in Section 4.1), these have been considered when determining the final risk rating. Where the delegated officer considers the works approval holder'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 works approval holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified.

The amended works approval that accompanies this report authorises construction only. The conditions in the amended works approval have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A risk assessment for the operational phase has been included in this report, however the works approval holder may apply for a registration following completion of the construction 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 and the Environmental Protection (Abrasive Blasting) Regulations 1998.

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

Risk events					Risk rating <sup>1</sup> C = consequence L = likelihood	Applicant controls sufficient?	Conditions <sup>2</sup> of works approval	Reasoning
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
Construction								
Construction and installation of the spray painting area	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	Receptor impacts are not expected given distance to receptors, type and nature of works and siting within an industrial area.  The provisions of the Environmental Protection (Noise) Regulations 1997 are also applicable.
	Dust							
Operation								
Spray painting area – 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	Receptor impacts not expected given distance to receptors and nature of noise associated with the spray-painting activities.  The provisions of the Environmental Protection (Noise) Regulations 1997 are also applicable.
	Paint fumes, overspray and odour	Air / windborne pathway causing impacts to health and amenity		Refer to Section 3.1	C = Minor  L = Rare <b>Low Risk</b>	Y	Condition 1	Receptor impacts not expected given distance to receptors and the works approval holder's proposed controls which are to be specified as construction design requirements on the works approval to ensure the assessed level of risk is achieved.  Operation of the new infrastructure on the premises must comply with the Environmental Protection (Metal Coating) Regulations 2001.

Risk events					Risk rating <sup>1</sup> C = consequence L = likelihood	Applicant controls sufficient?	Conditions <sup>2</sup> of works approval	Reasoning
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
	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, impacts are not expected.

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**

## 5. Decision

The delegated officer has determined the proposal to establish a 'spray painting area' instead of constructing a spray painting booth at the premises does not pose an unacceptable level of risk of impacts to public health or the environment. This determination is based on:

- the premises being located within an industrial area, and with adequate separation to off-site receptors;
- the proposed spray painting area will be predominantly enclosed, with most items to be painted within a dome shelter with fan driven ventilation; and
- larger items will be partially in the dome shelter and sprayed in front of the filters and extraction fans.

Following completion of the works, the works approval holder may apply for a registration under section 5B of the EP Regulations. The requirements of the Environmental Protection (Metal Coating) Regulations 2001 will apply to the operation of metal coating activities.

The premises also includes an abrasive blasting booth. Abrasive blasting is no longer a prescribed activity; however, all abrasive blasting activities must comply with the Environmental Protection (Abrasive Blasting) Regulations 1998.

## 6. Conclusion

Based on the assessment in this report, the delegated officer has determined that an amendment to the works approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

### 6.1 Summary of amendments

Table 4 provides a summary of the proposed amendments and will act as a record of implemented changes. All proposed changes have been incorporated into the amended works approval as part of the amendment process.

**Table 4: Summary of works approval amendments**

Condition no.	Proposed amendments
1	Removed the requirement for booth to comply with AS/NZS4114/2020 Remove the requirement for an interlock Remove reference to a spray booth Change required fan speed to 10ms <sup>-1</sup> .
Definitions	Remove reference to AS/NZS4114/2020
Schedule 1	Updated map for Figure 2.

## 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.