**WA Performance**

**Based Standards (PBS) Scheme**

Assessment Results (Part A)

Contents

[1 Contact Details 4](#_Toc153287131)

[1.1 Assessor Details 4](#_Toc153287132)

[1.2 Applicant and Vehicle Design Details 4](#_Toc153287133)

[1.3 Design Owner Details (If Different From Applicant Details) 4](#_Toc153287134)

[2 Application Summary 4](#_Toc153287135)

[3 Amendments and Variations 5](#_Toc153287136)

[3.1 Application Amendments and Variations 5](#_Toc153287137)

[4 Exemptions 6](#_Toc153287138)

[4.1 Exemptions to be Obtained 6](#_Toc153287139)

[5 Pbs Assessment Results 7](#_Toc153287140)

[5.1 Technical Results Table 7](#_Toc153287141)

[6 Data Sources and Assessment Method 8](#_Toc153287142)

[6.1 Data Sources 8](#_Toc153287143)

[6.2 Assessment Method 8](#_Toc153287144)

[7 Declaration 8](#_Toc153287145)

[7.1 Assessor Declaration 8](#_Toc153287146)

[8 Appendices 9](#_Toc153287147)

[Appendix 1: Technical Application Profile 10](#_Toc153287148)

[Appendix 2: Sensitivity Studies and Field Tests Undertaken (If Applicable) 11](#_Toc153287149)

Document Control

|  |  |
| --- | --- |
| **Design Owner** |  |
| **Document Number** | Internal Use Only |
| **Initial Issue Date** |  |

# Contact Details

## Assessor Details

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessor Details** | | | |
| Name of company |  | Contact person |  |
| Postal address |  | | |
| Email |  | | |
| Phone |  | Mobile |  |
| Assessor job number |  | | |

## Applicant and Vehicle Design Details

|  |  |  |  |
| --- | --- | --- | --- |
| **Applicant** | | | |
| Name of company |  | Contact person |  |
| Postal address |  | | |
| Email |  | | |
| Phone |  | Mobile |  |
| **Vehicle Design Details** | | | |
| Vehicle Design Number |  | | |

## Design Owner Details (if different from applicant details)

|  |  |  |  |
| --- | --- | --- | --- |
| **Design Owner** | | | |
| Name of company |  | Contact person |  |
| Postal address |  | | |
| Email |  | | |
| Phone |  | Mobile |  |

# Application Summary

|  |  |
| --- | --- |
| **Vehicle Combination 1** | |
| Vehicle description |  |
| Load description |  |
| Overall length x width x height (mm) |  |
| Access Information | Choose an item. |
| Mass Limits | Choose an item. |
| Comments: |  |

|  |  |
| --- | --- |
| **Vehicle Combination 2** | |
| Vehicle description |  |
| Load description |  |
| Overall length x width x height (mm) |  |
| Access Information | Choose an item. |
| Mass Limits | Choose an item. |
| Comments: |  |

|  |  |
| --- | --- |
| **Vehicle Combination 3** | |
| Vehicle description |  |
| Load description |  |
| Overall length x width x height (mm) |  |
| Access Information | Choose an item. |
| Mass Limits | Choose an item. |
| Comments: |  |

# Amendments and variations

## Application Amendments and Variations

| **Amendment Description** | **Date** | **TRIM Reference (office use only)** |
| --- | --- | --- |
|  | Click or tap to enter a date. |  |
|  | Click or tap to enter a date. |  |
|  | Click or tap to enter a date. |  |
|  | Click or tap to enter a date. |  |

**Note:** All amendments/variations/corrections from the previous version should be marked on the form with yellow highlight for clarity.

# Exemptions

PBS vehicles are required to comply with the applicable provisions of the Australian Design Rules (ADRs), and the Road Traffic (Vehicles) Regulations 2014 (RTVR). Exemptions must be requested from one or more of these if there is a conflict with the vehicle’s design. Check the items below for which exemption/s will need to be sought:

## Exemptions to be obtained

|  |  |  |
| --- | --- | --- |
| **Exemption Description** | **Exemption Required Yes/No** | **If yes, specify dimension** |
| The distance from the point of articulation to the rear overhang line exceeds 9.5 metres. | Choose an item. |  |
| The distance from the point of articulation to the rear end exceeds 12.3 metres. | Choose an item. |  |
| For a semi-trailer the forward projection from the ‘Point of Articulation’ exceeds a radius of 1.9 metres. | Choose an item. |  |
| Rear overhang exceeds limit of 3.7 metres or 60%. | Choose an item. |  |
| Height of vehicle or trailer other than a livestock trailer exceeds 4.3 metres. | Choose an item. |  |
| Width of vehicle or trailer exceeds 2.5 metres. | Choose an item. |  |
| Length of drawbar is less than 3.0 metres if in a road train configuration or more than 5.0 metres. | Choose an item. |  |
| Tow coupling overhang of a trailer exceeds 30%. | Choose an item. |  |
| Tow coupling underrun exceeds 300 millimetres. | Choose an item. |  |
| Height of the tow coupling attachment is less than 800 millimetres or more than 950 millimetres. | Choose an item. |  |

# PBS Assessment Results

## Technical Results Table

Complete the table below by:

* Providing the GCM and Access level(s) used for this assessment;
* Entering the result of each individual Performance Standard in the table below; and
* Indicating the performance level achieved (L1, L2, L3, L4; P for Pass or F for Fail).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Performance Standard** | **Performance Results** | | **Performance Level**  **L1 to L4**  **P = Pass / F = Fail** | | **Office Use Only** |
|  | **<GCM>t - L<\_>** | **<GCM>t - L<\_>** | **Level** | **P / F** | **Req.** |
| 1. Startability |  |  |  |  |  |
| 1. Gradeability: | | | | |  |
| 1. Maximum grade |  |  |  |  |  |
| 1. Speed on a 1% grade |  |  |  |  |  |
| 1. Acceleration capability |  |  |  |  |  |
| 1. Tracking Ability on a Straight Path |  |  |  |  |  |
| 1. Low-Speed Swept Path |  |  |  |  |  |
| 1. Frontal Swing: | | | | |  |
| 1. Maximum Frontal Swing |  |  |  |  |  |
| 1. Maximum of Difference |  |  |  |  |  |
| 1. Difference of Maxima |  |  |  |  |  |
| 1. Tail Swing |  |  |  |  |  |
| 1. Steer-Tyre Friction Demand |  |  |  |  |  |
| 1. Static Rollover Threshold (Worst) |  |  |  |  |  |
| Static Rollover Threshold of last unit |  |  |  |  |  |
| 1. Rearward Amplification |  |  |  |  |  |
| 1. High-Speed Transient Off-tracking |  |  |  |  |  |
| 1. Yaw Damping Coefficient |  |  |  |  |  |
| 1. Directional stability under braking |  |  |  |  |  |
| 1. Load Transfer Ratio |  |  |  |  |  |
| Notes: | | | | | |

# Data sources and assessment method

## Data sources

|  |  |
| --- | --- |
| **Data Sources** | |
| Mass Properties |  |
| Dimensions |  |
| Suspension |  |
| Tyres |  |

## Assessment Method

|  |  |
| --- | --- |
| **Assessment Method** | |
| Identify the simulation software, simulation models, calculations and test methods used to assess each Performance Standard in accordance with the Standards and Vehicle Assessment Rules*.* | |
| Standards 1 to 3 |  |
| Standards 5, 7 to 14 |  |
| Standard 16 & 17 |  |

# Declaration

## Assessor Declaration

|  |  |
| --- | --- |
| **Assessor Declaration\*** | |
| I hereby certify that the information required to complete this Application and information provided in this Design Approval Application Parts A and B and all supporting documents are complete, accurate and based on worst-case scenario. | |
| Name of Assessor |  |
| Date | Click or tap to enter a date. |
| Signature of Assessor |  |

\* Giving false and misleading information is a serious offence Section 36 (1) of the Road Traffic (Administration) Act 2008. Penalties apply.

# Appendices

|  |  |
| --- | --- |
| **Appendix** | **Title** |
| **Appendix 1** | Technical Application Profile |
| **Appendix 2** | Sensitivity Studies and Field Tests Undertaken (if applicable) |

Appendix 1: Technical Application Profile

* Provide assessed worst case loading scenarios.
* Note effects of unladen and partial loading conditions, as well as fluid slosh.
* Specify maximum payload heights and payload types.
* List operating conditions.
* Any other special conditions or requirements.

Appendix 2: Sensitivity Studies and Field Tests Undertaken (if applicable)