Performance Based Standards (PBS)

Design Approval Application Form

Part B

*Heavy Vehicle National Law* Section 22

*Heavy Vehicle (General) National Regulation* Section 4

V#app number#

*Note: Only PBS Assessors and Certifiers may submit this form*

**FOR OFFICE USE ONLY**

|  |  |
| --- | --- |
| **Assessor** | #assessor# |
| **Applicant** | #applicant# |
| **Vehicle description** | #vehicle# |
| **Pre-advised design** | #preadvised# |
| **Received by NHVR** | #date received# |
| **Processed by NHVR** | #date processed# |

APPLICATION AMENDMENT / VARIATION / CORRECTION SUMMARY

|  |  |  |
| --- | --- | --- |
| N | Brief Description | Date |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

NOTES:

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

|  |
| --- |
| Instructions For The Assessor |
| 1. The Assessor must complete Column C3 of this form for each PBS vehicle. If the PBS heavy vehicle is a combination, the relevant Parts A1 to A3 must be completed for each unit (e.g. trailer, semitrailer and dolly) in the combination. Insert additional Parts as necessary.
2. Some rows of Column C3 may be left blank provided the category or component is adequately described elsewhere in the Application Form.
3. When the vehicle is completely described, the Assessor must complete the Assessor Declaration in PBS Design Approval Application Form Part A.
 |

|  |
| --- |
|  Instructions For The Certifier |
| 1. The Certifier must complete Columns C4 and C5 of this form after having inspected the PBS vehicle/s.
2. For every physical requirement in Column C3 (Specification), the Certifier must complete Column C4 and provide the result of the inspected item in Column C5. For example, it may simply be that the dimensions are correct and the justification is “measured”. It may be that the specified engine is present and the engine manufacturer has provided a certification as to torque speed characteristics. Column C5 would be completed by indicating the specified engine was present and the certification from the engine manufacturer was satisfactory and is attached to the Certifier’s report.
3. The Certifier then completes ***Certifier’s Certificate*** and undertakes other requirements of the Rules. The Certifier must complete the **CERTIFIER’S DECLARATION** below.
 |

|  |
| --- |
| Inspection Details |
| Certifier’s name |  | Appointment No. |  |
| Inspection location |  | Inspection date |  |

|  |
| --- |
| **Certifier’s Declaration\*** |
| I hereby certify that the information in this form and any supporting documents are true and correct. |
| Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  | Date \_\_\_\_ /\_\_\_\_ /\_\_\_\_\_\_ |

\* Giving false and misleading information is a serious offence (Section 702 of the *Heavy Vehicle National Law*). Penalties apply.

| Vehicle Physical Characteristics (A1)  |
| --- |
| **CATEGORY OR COMPONENT (C1)** | **PARAMETER (C2)** | **SPECIFICATION (C3)** | **PHYSICAL REQUIREMENT OF THE PARAMETER PRESENT (C4)** | **JUSTIFICATION (C5)** |
| [ ]  Inspection [ ]  Desktop |
| **VIN** |
| **Truck / Prime Mover** |  |  |  |
| Vehicle | Generic description |  | [ ]  YES [ ]  NO |  |
| Make and model |  |
| Engine and driveline  | Make, model and ratingEngine torque-speed |  | [ ]  YES [ ]  NO |  |
| Clutch engagement torque (manual transmission) |  | [ ]  YES [ ]  NO |  |
| Torque converter characteristics (automatic transmission) |  | [ ]  YES [ ]  NO |  |
| Gearbox | Make, model and gearbox ratios |  | [ ]  YES [ ]  NO |  |
| Differential | Make, model and final drive ratio |  | [ ]  YES [ ]  NO |  |
| *Complying steer axle vehicle* – 6.5t steer axle mass | 1. has an engine complying with the requirements about emission control contained in ADR 80/01 or a later version of ADR 80.
2. a front underrun protection device that complies with UN ECE Regulation No. 93 or ADR 84–Front Underrun Impact Protection.
3. a cabin that complies with UN ECE Regulation No. 29.
4. appropriately rated tyres, axle and suspension to permit 6.5t on the steer axle.
 | Tick ‘YES’ if compliant.Tick ‘NO’ if not applicable or noncompliant. | [ ]  YES [ ]  NO |  |
| *Hauling unit or prime mover forming part of a road train* – 7.1t steer axle mass | 1. Tyres with a section width of at least 375mm are listed on the applicable DA tyre list.
 | To be eligible, 7.1t steer axle mass option must be shown on the DA.Tick ‘YES’ if VA requires 7.1t steer axle mass table.Tick ‘NO’ if not applicable/required or noncompliant. | [ ]  YES [ ]  NO |  |
| *Euro VI vehicle (complying steer axle)* – 7.0t steer axle mass | 1. has an engine complying with the requirements about emission control contained in ADR 80/04 or a later version of ADR 80.
2. has a front underrun protection device that complies with UN ECE Regulation No. 93 or ADR 84.
3. has a cabin that complies with UN ECE Regulation No. 29.
4. has appropriately rated tyres, axle and suspension to permit 7.0t on the steer axle.
5. Tyres with a section width of at least 315mm are listed on the applicable DA tyre list.
 | To be eligible, Euro VI steer axle mass must be shown on the Design Approval.Tick ‘YES’ if compliant.Tick ‘NO’ if not applicable or noncompliant. | [ ]  YES [ ]  NO |  |
| *Euro VI vehicle (single steer axle)* – 6.5t steer axle mass | 1. other than a complying steer axle vehicle
2. has an engine complying with the requirements about emission control contained in ADR 80/04 or a later version of ADR 80.
3. has appropriately rated tyres, axle and suspension to permit 6.5t on the steer axle.
 | To be eligible, Euro VI steer axle mass must be shown on the Design Approval.Tick ‘YES’ if compliant.Tick ‘NO’ if not applicable or noncompliant. | [ ]  YES [ ]  NO |  |
| *Euro VI vehicle (twinsteer)* – 11.5t steer axle mass | 1. has an engine complying with the requirements about emission control contained in ADR 80/04 or a later version of ADR 80.
2. has a load-sharing suspension system for the axle group.
3. has appropriately rated tyres, axle and suspension to permit 11.5t on the steer axle.
4. Tyres with a section width of at least 275mm are listed on the applicable DA tyre list.
 | To be eligible, Euro VI steer axle mass must be shown on the Design Approval.Tick ‘YES’ if compliant.Tick ‘NO’ if not applicable or noncompliant. | [ ]  YES [ ]  NO |  |
| Suspension | Make and model | Steer – | [ ]  YES [ ]  NO |  |
| For twinsteer hauling units/prime movers, load sharing is required for operation above 10t | [ ]  YES [ ]  NO |  |
| Drive – | [ ]  YES [ ]  NO |  |
| Road friendly suspensions are required for HML and QML masses | [ ]  YES [ ]  NO | RF number: |
| Wheels and axles | Track width, and dual tyre spacing | Steer Track –Drive Track –Dual tyre spacing – | [ ]  YES [ ]  NO |  |
| Drive axle group tractive effort distribution |  | [ ]  YES [ ]  NO |  |
| Wheels and axles | Lift axle/s |  | [ ]  YES [ ]  NO |  |
| Couplings | Type, D rating |  | [ ]  YES [ ]  NO |  |
| Brakes | EBS, ABS, LPV |  | [ ]  YES [ ]  NO |  |
| Mass | Gross Vehicle Mass (kg)Gross Combination Mass (kg) |  | [ ]  YES [ ]  NO |  |
| Tare | Minimum tare (kg) |  | [ ]  YES [ ]  NO |  |
| Other | Additional or special requirements |  | [ ]  YES [ ]  NO |  |

| **Vehicle Physical Characteristics (A2)** |
| --- |
| **CATEGORY OR COMPONENT (C1)** | **PARAMETER (C2)** | **SPECIFICATION (C3)** | **PHYSICAL REQUIREMENT OF THE PARAMETER PRESENT (C4)** | **JUSTIFICATION (C5)** |
| [ ]  Inspection [ ]  Desktop |
| **VIN** |
| **Trailer / Semitrailer / Dolly** |  |  |  |
| Vehicle | Generic description |  | [ ]  YES [ ]  NO |  |
| Make and model |  |  |
| Body type |  |  |
| Suspension | Rigid axle suspension make and model |  | [ ]  YES [ ]  NO |  |
| Road friendly suspensions are required for HML and QML masses | [ ]  YES [ ]  NO | RF number: |
| Steerable axle suspension make and model |  | [ ]  YES [ ]  NO |  |
| Road friendly suspensions are required for HML and QML masses | [ ]  YES [ ]  NO | RF number: |
| Wheels and axles | Track width, and dual tyre spacing |  | [ ]  YES [ ]  NO |  |
| Lift axle/s |  | [ ]  YES [ ]  NO |  |
| CouplingsBrakes | Type, D rating |  | [ ]  YES [ ]  NO |  |
| EBS, ABS, LPV |  | [ ]  YES [ ]  NO |  |
| Mass | Aggregate Trailer Mass (kg) |  | [ ]  YES [ ]  NO |  |
| Tare | Minimum tare (kg) |  | [ ]  YES [ ]  NO |  |
| Other | Additional or special requirements |  | [ ]  YES [ ]  NO |  |
|  |  |  |  |  |
|  |  |  |  |  |

| **VEHICLE PHYSICAL CHARACTERISTICS (A3)** |
| --- |
| **CATEGORY OR COMPONENT (C1)** | **PARAMETER (C2)** | **SPECIFICATION (C3)** | **PHYSICAL EQUIREMENT OF THE PARAMETER PRESENT (C4)** | **JUSTIFICATION (C5)** |
| **VEHICLE COMBINATION** |
| Dimensions | Compliance with the dimensions in the drawing/s (specify drawing number/s) |  | [ ]  YES [ ]  NO |  |

Vehicle Drawings (A4)

Tyres – Steer

*Inspection table completed by Certifier*

| ***AXLE NO*** | ***Tyre size*** | ***Load index*** | ***Tyre configuration*** | ***COMPLIANT*** | ***CONDITION (First manufacture only)^*** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  | [ ]  YES [ ]  NO |  |

*Options table completed by Assessor – New Tyre options*

| **First Manufacture** |
| --- |
| Tyre size | Minimum load index\* | Tyre configuration | Generic tyre dataset used |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

*\*The minimum load index specified is to be from within the range of the generic tyre dataset used in the assessment. Minimum tyre load index is to be reflective of available tyres on the marketplace (for the given tyre size). For further guidance refer to IPAC-13. (Example: 295/80R22.5 suggested minimum generic tyre dataset 6)*

*^Retreads are not permitted on the steer axle on a motor vehicle.*

*Note: Where individual axles (within the same axle group) have a different configuration, a tyre list must be provided for each axle and clearly identified by number to align with inspection tables.*

Tyres - Drive

*Inspection table completed by Certifier*

| ***AXLE NO*** | ***Tyre size*** | ***Load index*** | ***Tyre configuration*** | ***COMPLIANT*** | ***CONDITION (First manufacture or retread)*** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  | [ ]  YES [ ]  NO |  |

*Options table completed by Assessor – Tyre options*

| Tyre size | Minimum load index\* | Tyre configuration | Generic tyre dataset used |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

*\*The minimum load index specified is to be from within the range of the generic tyre dataset used in the assessment. Minimum tyre load index is to be reflective of available tyres on the marketplace (for the given tyre size). For further guidance refer to IPAC-13. (Example: 295/80R22.5 suggested minimum generic tyre dataset 6)*

*Note: Where individual axles (within the same axle group) have a different configuration, a tyre list must be provided for each axle and clearly identified by number to align with inspection tables.*

Tyres - Trailer

*Inspection table completed by Certifier*

| ***AXLE NO*** | ***Tyre size*** | ***Load index*** | ***Tyre configuration*** | ***COMPLIANT*** | ***CONDITION (First manufacture or retread)*** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  | [ ]  YES [ ]  NO |  |

*Options table completed by Assessor – Tyre options*

| Tyre size | Minimum load index\* | Tyre configuration | Generic tyre dataset used |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

*\*The minimum load index specified is to be from within the range of the generic tyre dataset used in the assessment. Minimum tyre load index is to be reflective of available tyres on the marketplace (for the given tyre size). For further guidance refer to IPAC-13. (Example: 295/80R22.5 suggested minimum generic tyre dataset 6)*

*Note: Where individual axles (within the same axle group) have a different configuration, a tyre list must be provided for each axle and clearly identified by number to align with inspection tables.*