IPAC-19 | Submission of Payload Height Nominations (PHN)

Audience: PBS Assessors and Certifiers
Effective Date: 5 August 2024

This IPAC outlines the process for nominating Payload Heights (PHs) using the Payload Height Nomination (PHN) Template during certification.

Background

PHN refers to the flexible nomination of PHs, rather than the use of conventional fixed PH values specified in the PBS Design Approval (DA).

PHN on a DA

The DA must explicitly state that the PHs are to be nominated via the PHN process.

Example PHN table on the DA:

Maximum payload heights measured from the ground must not exceed: (m)

Lead Trailer			Rear Trailer		
TCM	Uniform Density	Mixed Freight	TCM	Uniform Density	Mixed Freight
≤ GML	TBA*	TBA*	≤ GML	TBA*	TBA*
≤ CML	TBA*	TBA*	≤ CML	TBA*	TBA*
≤ HML	TBA*	TBA*	≤ HML	TBA*	TBA*

*For each vehicle certified under this design, Payload Height Nomination (PHN) document template must be provided with allowable Payload Heights (PHs).

PHN process

When a combination is built, it must be assessed by the original PBS Assessor considering the actual vehicle dimensions and specifications and the final PHs are to be provided by the Assessor using the PHN template document.

Process rules

- NHVR's PHN template document must be used.
- Must be signed and dated by the original PBS Assessor who submitted the design application.
- Must identify the specific combination via the use of labels and the Combination Matrix.
- Copies in both PDF and Word format must be provided with the certification submission.
- If the certification submission does not contain a correctly completed PHN, the application may be rejected.

Word version of PHN should be unsigned; only the PDF version must contain the Assessor's signature.

PHN template

When using NHVR's PHN template document, it is crucial to use the NHVR style and font as specified in the PHN template.

The template format, including the font type, colour, size, and structure of the tables, have been selected to match the PBS Vehicle Approval format.

PH tables from the PHN template will be copied directly into the VA document without modification; the PH tables will be used as provided.

Refer to Appendix A for a sample PHN format.

Integration with ASO

The PHN can be integrated into the ASO document, provided the PHN template document is used and a Word version of the ASO is provided with the certification submission.

Contact

This IPAC was produced by the PBS Vehicle Approvals Team (formerly PBS Operations Team). For queries, please contact pbs@nhvr.gov.au.

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Appendix A

A-double example

Vehicle List

Prime Mover 1
AAAAAAAAAAAAAAA11

Lead Trailer 1	Lead Trailer 2
BBBBBBBBBBBBBB11	**BBBBBBBBBBBBBB21**

Dolly 1
CCCCCCCCCCCCCC11

Rear Trailer 1
DDDDDDDDDDDDDD11

Trailer Sets

Trailer Set 1		
Lead Trailer 1	Dolly 1	Rear Trailer 1

Trailer Set 2		
Lead Trailer 2	Dolly 1	Rear Trailer 1

Combination Matrix

	Trailer Set 1	Trailer Set 2
Prime Mover 1	<INSERT DWG NO.> Original Table **1**	<INSERT DWG NO.> Original Table **1**

Payload Heights table - Example

1. Maximum Payload Heights (PHs) measured from the ground must not exceed: (m)

Table 1: Prime Mover 1 and Trailer Set 1

Lead Trailer			Rear Trailer		
Mass Across Axles 1-6	Uniform Density	Mixed Freight	Mass Across Axles 7-11	Uniform Density	Mixed Freight
≤ 38.5t GML	4.300	4.300	≤ 36.5t GML	4.300	4.300
≤ 43.0t CML	4.010		≤ 38.0t CML	4.190	
≤ 44.5t HML	3.940		≤ 39.5t HML	4.120	

TCM – Total Combination Mass

Uniform Density payloads have the mass equally distributed throughout the volume of the load space. Examples of uniform density products include, but are not limited to - grain, gravel sand, boxed ceramic tiles and canned drinks.

Mixed Freight payloads have heavier items placed on the bottom of the load and lighter items on top. For example, a mix of boxes of different weights, with heavier boxes placed on the bottom while lighter and smaller are placed on the top.

Considerations

Note 1: The tables above summarise the PHs for the listed combinations with respect to **<V222222>**.

Note 2: The combinations were assessed at the maximum PHs.

ASSESSOR: _____

ASSESSOR SIGNATURE: _____

DATE: _____