

PBS EXP 23 - A-Triple (3-3-3-3-3)

Approval under section 9(1)(b)(i)&(ii) of the Heavy Vehicle (General) National Regulation – Non compliance

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The type of heavy vehicle:	Tri-drive A-Triple (3-3-3-3-3) (Level 3)
The standard/s under the Standards and Vehicle Assessment Rules that a vehicle built to the design may not comply with:	<p>Pavement Horizontal Loading (A2)</p> <p>Standard: 110t – two drive axles</p> <p>This vehicle design: 146t (No exceedance – Tri-drive)</p> <p>Gradeability (Part A) (C2) – Maintain Motion</p> <p>Standard: 12% grade</p> <p>This vehicle design @ 146t: 11.7% grade (Shortfall of 0.3% grade)</p>
Reasons why the non-compliance will not pose any additional risk to safety or infrastructure if the particular conditions are imposed and complied with.	<p>The Regulator undertook a risk assessment before determining its support for the design. The Regulator concluded that although a heavy vehicle built to the design would not comply with Gradeability (Part A) C2(a) under the Standards and Vehicle Assessment Rules, with conditions applied it would comply with the intent of the standards and would not pose any greater risk than a heavy vehicle that did comply with the standard for the following reasons:</p> <ul style="list-style-type: none"> • The vehicle will have the following conditions applied when operating at Level 3 above 143.5t, the maximum grade on routes must not exceed 9% as approved by the responsible Road Manager and the mass on the drive axle group must be at least 20.7t. • The grade restriction and drive mass requirements ensure that the vehicle will be able to maintain the required tractive force to the road and to start and maintain motion as well as another level 3 PBS vehicle at 110t operating at maximum grade. • The conditions applied mean that the vehicle operating at 146t meets the intent of the Gradeability (Part A) C2(a) standards. • Permitting the higher loading will reduce the number of trips by approximately 5% for the same freight task and the whole route will be exposed to less standard axle passes. • The vehicle meets the PBS standards in all other respects.
Particular Conditions: (brief description)	When operating above 143.5t and up to 146t, the maximum grade on routes must not exceed 9% as approved by the responsible Road Manager and the mass on the drive axle group must be at least 20.7t.