

Project title	Class 153, Persons with Reduced Mobility (PRM) Modifications
Client name	dg8 design and engineering
Date	June 2021

## SCOPE/OBJECTIVE

The Class 153 Diesel Multiple Units operated by Transport for Wales needed to be modified to be compatible with the requirements of the National Technical Specification Notice (NTSN) for Persons with Reduced Mobility (PRM), 2021.

AEGIS was appointed as the 3<sup>rd</sup> Party Independent competent body to provide verification of the upgrades to the vehicles, by the design house, dg8 design & engineering.



## THE TECHNOLOGY

The modifications to the vehicles relate to providing accessibility for PRM. The upgrades being summarized as follows:

- Installation of a Passenger Information System.
- Installation of illuminated door pushbutton panels and door sounders.

## AEGIS Certification Services

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- The provision of a wheelchair space with Call for Aid device.
- The provision of priority seating.
- Installation of a wheelchair ramp.
- Modification of draught screens to enable a clearway for access to the wheelchair area.
- Interior and exterior refresh, new seat foams, colour contrasts and labelling

## HOW WE HELPED

AEGIS provided a route to approval for dg8 design & engineering, following the principles of NTSN, 'Modules for the procedures for assessment of conformity or suitability for use and UK verification (modules)' 2021.

AEGIS followed the requirements of module SB, Type Test, Verification, and module SD Quality Management System (QMS) Verification. The assessment was supported by the issue of an Attestation Statement supporting design conformance and verification and QMS conformance of the manufacturer's facility.

## OUTCOME

By applying NTSN for Module SB and SD to this upgrade project this enabled approval for the fleet without the need to provide build verification for each individual vehicle.

