

Approval test of the DMU AMG 800 in Corsica



Narrow gauge DMU AMG 800 during type testing on the Corse meter-gauge network

Customer Requirement

CTC (Collectivité Territoriale de Corse) ordered 12 DMU's, type AMG 800 by the vehicle manufacturer CFD (Compagnie des Chemins de Fer Départementaux). Operator is CFC (Chemin de Fer de la Corse), a subsidiary of SNCF. PROSE Ltd. was nominated by the manufacturer to perform the approval tests for the DMU.

Realisation

The following functions and characteristics were measured according specifications based on UIC-documents and EN-standards:

- The braking distances in any kind of operation and loading condition and the thermal behaviour during cutting off the hydraulic brake system on inclined track.
- The power capacity of the traction equipment in all loading conditions.
- The running behaviour and comfort



Not just safety relevant tests belongs to the scope of works of PROSE, also noise measurements are part of it

- Outside noise and noise within the vehicle and vibrations under different running conditions of all traction- and comfort devices (air-conditioning, etc.).



Totally 100 measuring signals were recorded to access the behavior of the AMG 800

Customer Advantage

With the accredited testing laboratory, part of PROSE Ltd., the vehicle manufacturer has a competent partner for the approval process on site. A PROSE engineer as project manager organises and coordinates all tests together with CFD. As a small company, PROSE is able to adapt its behaviour well to the needs of a small and flexible manufacturer like CFD in the challenging tests to approve a special vehicle in French environment which is focussed to standard and high speed applications.

Factsheet 2.00035

Detailed Information

Information on the Project

- Final customer:
Collectivité Territoriale de Corse
Chemin de Fer de la Corse
Corsica, France
- Customer: Compagnie des Chemins de Fer Départementaux (CFD)
France
- Period: 2007 – 2009

Technical Data of the train

- Traction: 2 DEUTZ diesel engines
- Power: 2 x 440kW
- Gear: VOITH Turbogear
- Gauge: 1000 mm
- Equipment: low-floor
panorama-windows
air conditioning

Further References for Running Dynamics Approval Measurements

- Stadler: EMU's GTW Turbo and FLIRT in Switzerland and Germany
- Bombardier: AVE S102 in Spain
- Fahrzeugtechnik Dessau: EMU PROTOS in the Netherlands
- AnsaldoBreda: EMU Class 72 in Norway
- Universal Locomotives NSB EI 18 in Norway and VR Sr2 in Finland

Project Responsibility

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