

Network Rail Hudson House Station Rise York YO1 6HP

7 February 2005

Dear,

Re: Proposed Vehicle Change: New Class 185 Rolling Stock Route Clearance, Operation and Deployment

TransPennine Express have submitted to Network Rail a Vehicle Change proposal in respect of the route clearance, operation and deployment of Class 185 Diesel Hydraulic Multiple units on the routes detailed below. Network Rail is obliged under Access Condition F1 to consult with all other operators of railway assets who are likely to be materially affected. In accordance with the procedure laid down in the Track Access Conditions, Network Rail, on behalf of TransPennine Express wish to give formal notice of proposals for Vehicle Change under Condition F1.

Description of Proposal

Introduction

In accordance with Track Access Condition F, TransPennine Express wishes to initiate the Vehicle Change Procedure in respect of the proposed introduction of Class 185 Diesel Hydraulic Multiple Units.

A supplemental to the track access agreement, adding Class 185 units to TransPennine Express Specified Equipment, is being developed by TransPennine Express and Network Rail and will be consulted through the industry.

The new units will replace the following fleet of trains currently in operation on TransPennine Express services:

- 45 Class 158 Units, formed by 107 vehicles that will be reformed into 42 Units in December 2004
- 11 Class 175 3-car Units

Vehicles

A total of 51 3-car units are being supplied to TransPennine Express by Siemens Transportation for HSBC as the owners and leased to TransPennine Express. The Class 185 has a maximum service speed of 100mph (160km/h)

The new Class 185 will have a higher performance and reliability characteristics that the current fleet of Class 158s and 175s. A programme of reliability performance will be maintained by Siemens Transportation, and any safety defects will be notified in accordance with RGS GM/RT2250.

The DMU comprises 3 cars with the capability of future strengthening to 4. 5 or 6 cars. Each 3 car unit is made up of 2 driving motor vehicles with 1 intermediate motor vehicle. Class 185's can be run in multiple up to a maximum of 12 cars.

The vehicles comply with the Rail Vehicle Accessibility Regulations (RVAR) 1998 and RVAR (Amendment) 2000 Rights for Disabled Persons Transport.

Principal features

Configuration DMOSB - MOSL - DMOCLW

Maximum operational 100mph (160kph)

speed

Engine

Acceleration 0 - 100mph in 217 seconds Brakes Wheel mounted brake discs

Pneumatic with blended hydrodynamic servic

brake

Pneumatic emergency brake

9% Service brake with enhanced 12% in Emergency in accordance with GM/RT2044 Cummins QSK19R. 560kw (750hp) per

vehicle meeting Euro 2 Exhaust gas

emission level

Transmission Voith T312bre including hydrodynamic

retarder

Cooler Group Voith designed Water and Combustion Air

cooling system

Final Drive 2 driven axles per car through master and

slave gearboxes Siemens SF5000 UK

Construction Integral welded aluminium body shell Power operated electro-pneumatic bi-

parting plugs doors at 1/3 & 2/3 positions

Windows Double glazes units with emergency

windows

CET Each Unit has one standard toilet and one

universal toilet with wheelchair access. Both toilets are of the controlled emission

type

HVAC Drivers cab and saloon are fully air-

conditioned

Sanding Sanders activated under high service brake

and emergency brake if slide detected. Driver can manually sand in motoring.

Range 1560 miles (2500km)

Horns High and Low Pitch with soft tone at low

speed

Coupling Facilities

Bogie

Automatic Coupler Dellner Type 12 Height 925mm ARL

Tension Strength 1000kN
Compression Strength 1500kN
Vertical Swing ± 8°
Horizontal Swing ± 23°

Rescue Facilities BSI and drawhook apaptor couplers are on

board

Tail and marker lights

Shore Supplies

Combines white and red LED type 400V 125Amp 3 phase connection 400V 16Amp 3 phase connection (For

engine preheater only)

Ambient Conditions Temperatures -17° C to $+35^{\circ}$ C

Floodwater up to 100mm above rail level

(at 5kmh)

Fresh snow up to 100mm above rail level

Compatible Vehicles Details of compatible vehicles will be

described on the RSAB certificate

The Class 185 units will utilise the following safety systems:

- Automatic Warning System (AWS)
- Train Protection Warning System (TPWS)
- DSD/Vigilance (DSD)
- Track Circuit Actuator (TCA)

- Active Drivers Reminder Appliance (DRA)
- Train Data Recorder (OTMR)
- National Radio Network (NRN)
- Provision for future fitment of ATP/ERTMS level 2 systems

The train designed to Railway Group Standards Requirements

Operation

Class 185 is intended to operate throughout TransPennine Express franchised routes and gauging for the following routes is being carried out:

- 1. Newcastle York via King Edward Bridge or High Level Bridge and Darlington
- 2. Newcastle (via either bridge) Bowesfield Jn (Middlesbrough) via Sunderland
- 3. York Scarborough
- 4. Seamer Filey
- 5. York Leeds
- 6. Middlesbrough Northallerton
- 7. Darlington Eaglescliffe
- 8. Micklefield Hull
- 9. Leeds Manchester Piccadilly via Dewsbury, Huddersfield and Guide Bridge
- 10. Manchester Picc Liverpool Lime St via Warrington Central
- 11. Ardwick Jn Manchester Airport
- 12. Slade Lane Jn (Manchester) Sheffield
- 13. Ardwick Jn New Mills South Jn via Bredbury
- 14. Doncaster Sheffield via Swinton In
- 15. Holmes in Arwarke Jn via Rotherham Central
- 16. Cleethorpes Doncaster
- 17. Habrough Barton on Humber
- 18. Deansgate Jn (Manchester) Barrow via Bolton and Chorley
- 19. Barrow Millom
- 20. Carnforth North Jn Windermere
- 21. Morecambe South In Morecambe (via DUM and DUH)
- 22. Bare Lane Hest Bank
- 23. Preston Blackpool North
- 24. Church Fenton Leeds via Castleford and Methley Jn
- 25. Whitwood Jn and Methley Jn Thornhill LNW Jn
- 26. Leeds Wakefield Kirkgate
- 27. Wakefield Westgate Doncaster
- 28. Leeds Manchester Victoria via Bradford Interchange

- 29. Heaton Lodge Jn Milner Royd Jn
- 30. Bradley Jn Bradley Wood Jn
- 31. Stalybridge Miles Platting
- 32. Manchester Victoria Edge Hill via Earlestown
- 33. Salford Crescent Deal St Jn
- 34. Guide Bridge Romiley
- 35. Edgeley Jn Alderley Edge
- 36. Wilmslow Heald Green West Jn
- 37. Sheffield Barnetby via Retford
- 38. Salford Crescent Euxton Jn via Atherton & Wigan NW
- 39. Lostock Jn Crow Nest JN
- 40. Parkside Jn Wigan NW

Driver training will commence in the autumn of 2005 and the new fleet will be phased into revenue service during 2006. The testing program is currently being finalised with UK testing anticipated to take place over TransPennine Express franchised routes.

Class 185 will be primarily maintained at new depot facilities to be located in Manchester and York. Fuelling and outstabling will also take place at other locations on TransPennine Express franchised routes under rights that exist for the current fleet or under rights under supplemental agreements that will be consulted at the time.

It is not currently know what ,if any, infrastructure works will be required to accommodate the Class 185 units. If any works are deemed necessary, these will be consulted under a separate Network Change proposal.

In accordance with Condition F1.3 Network Rail are seeking comments from yourselves and the persons listed overleaf as to whether you are content for the change to be implemented. Would you please, therefore, inform me of the time it will take you to analyse this change and the amount of compensation you may be seeking.

You have the opportunity to request from TransPennine Express reimbursement of any costs that you might incur as a consequence of this change. If a formal response is not received within 28 days of the date of this letter, it will be deemed that this proposal is accepted by you without compensation.

Should you require any further information regarding this proposal, please do not hesitate to contact me. If you believe that only TransPennine Express may be able to answer your questions please

contact them directly; I would appreciate copies of any correspondence entered into.

I look forward to receiving your response to enable me to progress this proposal.

Yours sincerely

Diane Harryman Network Change Co-ordinator LNE