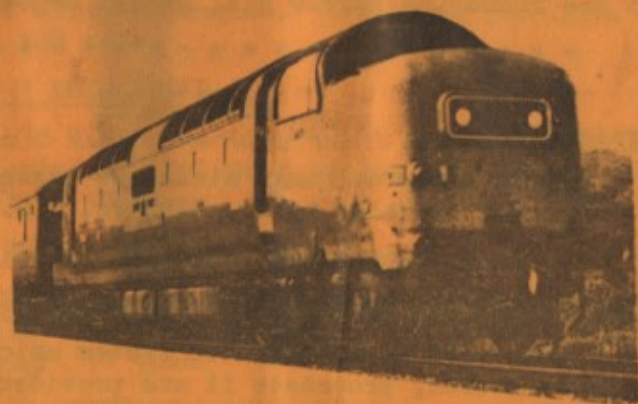


 **British Rail** Eastern



BARROW HILL OPEN DAY

SUNDAY 7th OCTOBER 1979

1000 hrs. - 1800 hrs.

ADMISSION PROGRAMME 30p

Proceeds to be donated to :
St. Christopher's Orphanage
Railway Convalescent Homes
Local Charities

A welcome is extended to all visitors by Mr. A. Pattinson, Area Manager, and an opportunity offered to see round the Barrow Hill Diesel Depot.

ATTRACTIONS

Train Rides

- (a) On a narrow guage miniature steam train (loaned and operated by Mr. G. Bird, B.R. York)
- (b) In a coach hauled by a 20 $\frac{1}{2}$ H.P. Diesel.

T.O.P.S. (Total Operations Processing System)

A real-time logic computer system which accepts information, processes it and provides new information in milliseconds. Contains records of all freight rolling stock and locomotives and maintains up-dated records of all movements.

Railway Preservation Societies

Light Refreshments

CLASS 56 LOCOMOTIVE

3,250 H.P. Locomotive designed by Bush with English Electric 16 cylinder engine. Max. speed 80m.p.h. Weight 128 tons. Newest type of freight locomotive mainly used for hauling coal from Collieries to Power Stations in Merry-Go-Round trains.

CLASS 55 LOCOMOTIVE

3,300 H.P. Locomotive built by Napiers with 2 x 16 cylinder English Electric engines. Max. speed 100m.p.h. Weight 100 tons. Used on passenger trains on the East Coast Main Line and now being superseded by the High Speed Train.

CLASS 47 LOCOMOTIVE

2,750 H.P. Locomotive built by Brush Electrical Engineering Co. with Sulzer 12 cylinder engine. Max. speed 95m.p.h. Weight 11 $\frac{1}{2}$ tons.

CLASS 37 LOCOMOTIVE

1,750 H.P. Locomotive built by English Electric Co. with 12 cylinder engine. Max. speed 90 m.p.h. Weight 108 tons.

CLASS 31 LOCOMOTIVE

1,470 H.P. Locomotive built by Brush with English Electric 12 cylinder engine. Max speed 90m.p.h. Weight 107 tons.

CLASS 20 LOCOMOTIVE

1000 H.P. Locomotive built by English Electric Co. with 8 cylinder engine. Max. speed 75m.p.h. Weight 72 tons.

CLASS 08 SHUNTING LOCOMOTIVE

Built by British Rail with English Electric diesel engine.

CLASS 03 SHUNTING LOCOMOTIVE

Built by British Rail with Gardner 8 cylinder engine and self-changing gearbox. Very few of this type of locomotive are in use on B.R. now.

CLASS 76 LOCOMOTIVE

1,500v. D.C. Electric Locomotive built by British Rail at Doncaster to work freight and passenger trains on the Manchester-Sheffield-Wath electrified lines. Now used on freight hauls on that route. Max. speed 65m.p.h. Weight 89 tons. Tractive effort 4,500lb maximum.

AUTOMATIC WARNING SYSTEM

A device used on main lines for warning Drivers on passing a signal at Caution. An automatic brake application is made and a horn sounds in the locomotive cab.

ULTRASONIC TESTING

Equipment for detecting flaws in solid pieces of metal being demonstrated on axles.

SCIENTIFIC SERVICES DISPLAY

Exhibition of some of the types of work undertaken by this department of B.R.

RESEARCH DEPARTMENT

Photographic display of research projects taking place at Derby and elsewhere.

PHOTOGRAPHIC DISPLAY

Display by local amateur photographers of locomotives and Railway locations in this area.

FIRST AID DEMONSTRATIONS

Barrow Hill has an active First Aid organisation and the teams have a long history of success in local Railway competitions. Some of the team members will give demonstrations of practical First Aid during the course of the day.

FREIGHT VEHICLES

Modern Air Braked Freight vehicles plus a 16 Tonne capacity conventional wagon and an older type of tank wagon.

PASSENGER VEHICLES.

Selection of Passenger Coaches and a Cinema Coach showing films throughout the day.

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ACKNOWLEDGEMENTS

Appreciation is expressed for the assistance given by the following:

PROCOR U.K. LTD.

CHESTERFIELD BOROUGH COUNCIL