

THE PERMANENT LATERAL DISPLACEMENT OF THE TRACK UNDER THE INFLUENCE OF A SLOWLY MOVING LATERAL LOAD – TESTS AT MICKLEOVER PRIOR TO DECEMBER 1975

Tests have been carried out to simulate, on a straight track, the action of a vehicle running around a curve at speed. This report gives a brief description of the test and presents the major results obtained.

Comments are made on the results obtained and it is pointed out that there have been unexplained changes in the track's resistance to lateral deformation.

Recommendations are made for further work regarding the effects of axle load and reasons for change in track restraint to be carried out as a matter of urgency; and subsequently the effects of compressive forces in the rails (caused by high temperature) on the behaviour of track under the influence of lateral forces.