

## NEW CRITERIA FOR RAIL RENEWALS IN TUNNELS

Past and current BR rail renewal criteria make an allowance for traffic type and speed in the form of the line category, with the rail section also being considered. However factors such as the type of trackbed, severity of any foot gall, effect of head irregularities, and the precise nature of material loss, are not included in the decision on whether to replace the rail. Previous work has shown that rail foot stress is affected by these factors, so their inclusion would result in more reliable renewal criteria; it is the aim of this work to develop such criteria.

This report summarises the work carried out for the Rail Renewal in Tunnels project, the separate phases having already been reported. The work is then brought together to form proposed rail renewal criteria, and a questionnaire is developed to apply these criteria.