



BR 1894
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Radio Aerial Systems including Towers and Masts

British Railways Board



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AMENDMENTS

Amd. No.	Date	Text Affected

British Railways Board

BRITISH RAILWAYS BOARD

SPECIFICATION NO. 1894

RADIO AERIAL SYSTEMS INCLUDING TOWERS AND MASTS

FOREWORD

This specification supersedes all previous issues and is issued by:-

British Railways Board,
Director of S. & T. Engineering,
Materials Management Group,
Room 1103,
Rail House,
CREWE,
Cheshire. CW2 6EA

BT (STD) 0270-532494
BT (STD) 0270-532345 FAX
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From whom further copies may be obtained.

Technical queries shall be referred to the Regional Signal & Telecommunications Engineer of the Region concerned, see section 8.

Where the tenderer is unable to comply with sections of this specification, full details must be given, quoting the relevant paragraph number.

A unit price for all items requested in the schedule must be provided.

1. REFERENCES

- British Standards: CP3 - Wind loads.
- CP326 - The protection of structures against lightning.
- 449 - The use of structural steel in building.
- 729 - Hot dip galvanized coatings on iron and steel articles.

Where this specification requires reference to British Standards, the latest issue shall apply, unless specially stated.

2. SCOPE

This specification covers the requirements for aerial systems including Towers and Masts, for British Rail radio schemes.

3. GENERAL

3.1 The individual requirements for each aerial system are detailed in the schedule.

3.2 For VHF radio systems two vertically polarised aerials shall normally be provided for each fixed station. The receiver aerial will normally be at the higher level.

At sites where more than one VHF fixed station is employed, three or more aerials shall be provided, ie. independent aerials for transmitters and one common aerial for reception. This system shall use a receiver distribution amplifier.

If specified in the schedule, a single aerial shall be provided. A duplexer will be provided as part of the radio fixed station.