

PROCEDURES FOR THE USE OF BAND III/NRN BASE STATIONS FOR
ENGINEERING / EMERGENCY WORK

1. SCOPE

- 1.1 This Directive defines the procedures to be followed when using a Band III / NRN Base Station for Engineering / Emergency work.

2. DEFINITIONS

BRT	British Rail Telecomms Ltd.
DTI	Department of Trade and Industry.
ERP	Effective Radiated Power.
NRN	National Radio Network.
ORN	Overlay Radio Network.
RETB	Radio Electronic Token Block.
RETB Base Station	Base Station operating in accordance with BR 1654.
TFC	Telecomms Fault Control
TX	Transmit.

3. REFERENCES

Nil.

4. REQUIREMENTS

- 4.1 Temporary Band III base stations (operating in local talkthrough only) may be used for essential/emergency works for periods not exceeding 24 hours.
- 4.2 The aerial mast and equipment must be sited on railway land i.e. at track level (not hill-top sites) and the aerial height must not exceed 18.3 metres above rail level. The maximum permitted ERP is 25 watts.
- 4.3 The equipment shall normally be operated on channel 100 (i.e. requiring telegram access log-on). In circumstances where RETB type base stations are not available then channel 200 may be used, but the equipment must not be left unattended as to do so is in breach of DTI regulations for interference control, and there will be no protection from interference when operated on this channel
- 4.4 For long term engineering works (e.g. resignalling, new bridge installations etc.), a temporary Band III basestation again operating in local talkthrough only) may be utilised. As this equipment must have a channel cleared for use by the DTI a minimum of five weeks notice is normally required by BRT. and application must be made to:

BRT Ltd.
Director of Engineering,
CP10 Macmillan House,
Paddington Station,
f.a.o. Radio Systems Engineer (Networks).

- 4.5 Aerial Heights (above ground level) and locations are negotiable, depending on DTI channel occupancy loading figures. TX powers and aerial directions will be notified on receipt of DTI clearance. (See Long Term Engineering Works Temporary Licence application form attached as Appendix A.)
- 4.6 Under no circumstances may an ORN Base Station be taken out of operation.
- 4.7 The operational Band III NRN Base Station must not be taken out of network use for ordinary engineering operations.
- 4.8 In the event of a major incident, an NRN base station may be put into local talkthrough until alternative communications systems are set up. The AS&TE or nominated deputy must authorise the removal of an NRN Base Station from operation for a major incident. The TFC shall be informed of any such base station that is removed from traffic (and also upon its restoration to traffic).
- 4.9 It must be stressed to users that the use of call signs is essential (and a legal requirement) on radio schemes of this type for safety reasons. These should be agreed between the user and the S&T office involved.
- 4.10 Only one temporary radio system will be approved for each engineering worksite. All departments will therefore be sharing one common system. Responsibility for this provision must be allocated at possession management meetings

5. HISTORY

Issue 1 May 1992. Approved TSC April 1992 T J Murphy

6. AUTHORISATION

This Directive is authorised for implementation by:

Signatures removed from electronic version

C. Kessell,
Director of Engineering, BRT Ltd.

- END -

(Appendix A follows)

APPLICATION FORM FOR RADIO SITE CLEARANCE OF BAND III RADIO BASE STATIONS
 APPLICABLE TO LONG TERM ENGINEERING WORKS.

Customer _____ telephone no. _____

Work being undertaken _____

Location of works _____ OS Grid Ref _____

Period of works, from _____ to _____

Quantity of radios on scheme _____

Suggested base station site _____
 OS Grid Ref _____

Is this an existing NRN site _____ or any other radio site, if so
 give details _____

Range of coverage required _____ (are you sure that is genuine?)

Suggested aerial height _____ M Site Height _____ M ASL

Your name _____ tel/no. _____

Address _____

Do not fill in below this line - for BRT use only.

Approved by BRT / / 9 Submitted to DTI / / 9

Cleared by DTI / / 9 Clearance sent out on / / 9

TX power _____ watts Aerial type _____ Site Grid Ref _____

Direction _____ degrees E of North (true).

Base Station HEX code _____, Hand Portable/Mobile Channel _____

Any comments _____