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RAILTRACK PLC

MODEL CLAUSES FOR SPECIFYING CIVIL ENGINEERING WORKS

SECTION 210

Permanent Way – General

ISSUE NO. 1 REVISION B

RT/CE/C/008/210N

Page 1 of 26

Date: 31 March 1997

Submitted by: Keith Ross
Structures Standards Engineer
Civil Engineering Directorate
King's Cross

Approved by: Model Clauses (Civil Engineering)
Committee on 14 May 1997

Signature:.....
for Director, Civil Engineering

John Horsler
Civil Engineer, Structures Compliance
Chairman Model Clauses (Civil Engineering)
Committee

Amendments

Amendments and additions since the previous issue are marked by a vertical line in the right hand margin.

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SECTION 210

PERMANENT WAY – GENERAL

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SECTION 210

PERMANENT WAY - GENERAL

NOTES TO SPECIFIER:

These notes do not form part of the Specification.

Tipping of ballast at the lineside **210.1**

Ballast may be tipped at the lineside provided an exemption from the requirements of the Waste Management Regulations 1994 for the particular location has been notified to the appropriate licensing Authority, and provided that the total quantity of ballast tipped at any location does not, or following the Contract, is not likely to exceed the legal limit of 10 tonnes for each metre of track from which the ballast derives.

Should tipping of ballast at the lineside be an option the Specifier needs to ensure that both:

- (i) the location has been registered,
- (ii) the 10 tonne limit has not or will not be exceeded by this work,

If neither of the above two conditions have been fulfilled, Clause 210.006 should be amended to prohibit tipping at the lineside at the particular location or arrangements made for the appropriate licensing Authority to be notified of the exemption for the location.

Unless an exemption has been obtained for a particular location, ballast must be conveyed off-site and tipped at a licensed tipping facility.

Where an exemption has been obtained, limitations on tipping of ballast at the lineside should be included in the Particular Specification. Such limitations could include:

- (i) tipping subject to approval of Employer's Representative,
- (ii) defined limits between which tipping may be carried out,
- (iii) maximum thickness.

Works affecting signalling, telecommunication or electrification equipment **210.2**

The Specifier should ensure that the relevant portions of the Contract Specification detailing requirements for signalling, telecommunications or electrification equipment is agreed and signed off by the responsible Zonal Engineer for each particular discipline.

This requirement applies to all Clauses from the Permanent Way Sections.

**Competency of
operatives**

210.3 *The list of training schools included in Clause 210.005 are the various training schools that were formerly part of British Rail, and was correct at 7 March 1997. However, in time it is anticipated that other organisations will be deemed competent to certify personnel in ultrasonic testing and welding of rail. The Specifier should check for names and addresses of any additional organisations from:*

*Civil Engineer, Permanent Way Compliance
Civil Engineering Directorate
Eastside Offices
Kings Cross Station
London N1 9AP*

*Tel: 00 59214
Fax: 00 29011*

PERMANENT WAY

SECTION 210

PERMANENT WAY - GENERAL REQUIREMENTS

General

- 210.001** The Specification for Permanent Way details requirements applicable to all Sites unless specified otherwise in the relevant Particular Specification. *!C!* *!CHECK!* Requirements applicable to particular Sites are specified in the relevant Particular Specification. *!C!* *!CHECK!* In case of any discrepancy, the relevant Particular Specification shall take precedence.
- (210.001)

Permanent Way Standard Drawings

- 210.002** All Permanent Way shall be in accordance with the relevant Permanent Way Standard Drawings. Drawings numbered in the Series RE/PW/XXX referenced in this Specification, are Permanent Way Standard Drawings. A list of all current Permanent Way Standard Drawings is available from:

Civil Engineering Directorate
Eastside Offices
Kings Cross Station
London N1 9AP

Tel: 0171 465 9218
Fax: 0171 922 9011

Copies of Permanent Way Standard Drawings are available from:

Owen Williams Railways
Meridian
85 Smallbrook Queensway
Birmingham B5 4HY

Tel: 0121 654 7328
Fax: 0121 654 7387

CEDG York Ltd
Hudson House
Toft Green
York YO1 1HP

Tel: 01904 522164
Fax: 01904 523876

*Check currency of
addresses and
telephone numbers*

Scott Wilson Mainline Ltd
Western House
1, Holbrook Way
Swindon SN1 1BY

Tel: 01793 515888
Fax: 01793 515844

Scott Wilson IDG Ltd
Buchanan House
58, Port Dundas Road
Glasgow G4 0HG

Tel: 0141 335 3272
Fax: 0141 335 2757

W. S. Atkins Rail (CEDAC) Ltd
Berkshire House
171, High Holborn
London WC1V 7AA

Tel: 0171 497 1502
Fax: 0171 379 8563

(210.002)

Abbreviations **210.003** Abbreviations used in the Contract Specification shall have the following meanings:

Delete those not applicable or not used in the Specification

ATP	–	automatic train protection
AWS	–	automatic warning system
BH	–	bull head (rail)
CWR	–	continuous welded rail
DTS	–	dynamic track stabiliser
ESR	–	emergency speed restriction
FB	–	flat bottomed (rail)
IB	–	impedance bond
IRJ	–	insulated rail joint (= insulated block joint)
LWR	–	long welded rail
PSR	–	permanent speed restriction
S&C	–	switches and crossings
TSR	–	temporary speed restriction

(210.003)

Track category **210.004** Permanent Way installations shall be designed, installed and maintained as applicable to the track category as listed in the relevant Particular Specification, **!CHECK!** for the particular location.

!C!

(210.004)

Competency of operatives **210.005** Further to Railtrack Line Standard RT/LS/S008, **!CHECK!** work processes affecting the Permanent Way such as but not limited to rail drilling and cutting, rail stressing, rail welding, ultrasonic testing of rails and welds, shall be carried out only by competent certificated Contractor's personnel.

!C!

Refer to Notes to Specifier

Ultrasonic testing of rails shall be carried out by Contractor's personnel who have attended and satisfactorily completed an ultrasonic testing of rails training course provided by:

Check address and telephone number

!C!

NDT Training Centre
Serco Railtest Ltd
P.O. Box 243
Railway Technical Centre
London Road
Derby DE24 8ZZ

Tel: 013322 63397
Fax: 013322 62012/64965

Welding of rail shall be carried out by Contractor's personnel who have attended and satisfactorily completed a rail welding training course provided by one of the following companies:

Check addresses and telephone numbers

!C!

AMEC Rail Limited
Training Centre
Fairbairn Close
(Off Beaumont Road)
Purley
Surrey CR2 2AT

Tel: 0181 666 6920/84
Fax: 0181 666 6417

Fastline Track Renewals
Training Centre
(York Welding School)
Old Biscuit Warehouse
Leeman Road
York YO2 4XD

Tel: 01904 522237
Fax: 01904 522013

GTRM Training Centre
Nunn Mills Road
(Off Bedford Road)
Northampton NN1 5NZ

Tel: 01604 30362
Fax: 01604 38385

First Engineering Ltd
Training Development Centre
Quay Road
Rutherglen
Glasgow
G73 1LD

Tel: 0141 335 4488
Fax: 0141 335 4498

Amey Railways
Welding Training Centre
Training Development Department
2nd Floor, 125 House,
1 Gloucester Street
Swindon SN1 1SU

Tel: 01793 515117
Fax: 01793 515688

(210.005)

**Ballast working
generally**

210.006

Track ballast shall be unloaded and levelled in a manner that minimises the generation of concentrations of airborne dust.

Ballast shall be placed on the tracks in accordance with Railtrack Line Standard RT/CE/S102, and kept clear of all running, check and conductor rails and clear of all flangeways and switch rails to S&C.

See Note to Specifier

Where practicable, excavated ballast, spent or fouled ballast, ballast cleaner screenings and other excavated spoil shall be removed from the Site. When agreed by the Engineer, such material may be spread evenly upon embankment slopes at the locations and in accordance with the limitations specified in the relevant Particular Specification. **!CHECK!**

!C!