

The following information is associated with Network Rail Standard:
[NR/L3/CIV/140/214N](#) Issue 1

Additional Content Access

Click the links below to access non PDF related content associated with this standard.

Word Document

- [NR/L3/CIV/140/214N](#)

If you have any questions, or need assistance, please contact [IHS Support](#)

Information accessed via the links above is the property of the Copyright holder

IHS Additional Content Page

RAILTRACK PLC

MODEL CLAUSES FOR SPECIFYING CIVIL ENGINEERING WORKS

SECTION 214 Inspection of Permanent Way

ISSUE NO. 1 REVISION B

**RT/CE/C/008/214N
Page 1 of 18**

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.

© Railtrack PLC 1997

This document is the property of Railtrack PLC. It shall not be reproduced in whole or in part without the written permission of the publisher for use external to Railtrack.

Published by

Director Civil Engineering,
Railtrack PLC,
Eastside Offices
Kings Cross Station,
London N1 9AP

Controlled document

No:.....

SECTION 214

INSPECTION OF PERMANENT WAY

SECTION CONTENTS

Page

This table of contents does not form part of the Specification.

NOTES TO SPECIFIER

214.1	Contract scope	3
-------	----------------	---

SPECIFICATION CLAUSES

SECTION 214

INSPECTION OF PERMANENT WAY

214.001	Inspection of the Permanent Way generally	4
214.002	Visual inspection of the track	4
214.003	Level crossings	5
214.004	Non ballasted track on bridges	6
214.005	Flangeway clearances to switches and crossings	6
214.006	PointCare generally	6
214.007	PointCare – switches	6
214.008	PointCare – swing nose crossings	9
214.009	Structural clearances	10
214.010	Structures	11
214.011	Cuttings and embankments	11
214.012	Lineside fences	12
214.013	Track drainage and lineside ditches	12
214.014	Cess walkway	12
214.015	Buffer stops	12

APPENDIX

214A	PointCare Service Record Cards	13
------	--------------------------------	----

REFERENCES

	<i>Railway Group Standards</i>	18
	<i>Railtrack Line Standards</i>	18

SECTION 214

INSPECTION OF PERMANENT WAY

NOTES TO SPECIFIER

Contract Scope

214.1 *The Scope specified in the Contract should state the location of the inspections required to be carried out, number of level crossings, overbridges, unballasted bridge decks, etc., and length of line for each type of track category to be inspected.*

The inspections specified in this Section may be carried out for:

- (i) an inspection only contract,*
- (ii) as part of an inspection and maintenance contract.*

For the former, defects found should be reported to the Employer's Representative. However, for the second option, the defects should be reported internally within the Contractor's organisation, but records of the defects should be supplied to Railtrack and retained for audit by the Contractor.

Allowance has also been made for maintenance of the lineside structures, walkways and fencing to be carried out under a separate Contract from the inspection or track maintenance contract.

SECTION 214

INSPECTION OF PERMANENT WAY

Inspection of the Permanent Way generally

214.001

Inspections of the Permanent Way shall be carried out by competent Contractor's personnel in accordance with Railtrack Line Standard RT/CE/S103 and the additions or qualifications specified in this Section of the Specification. **!CHECK!**

!C!

A method statement detailing the inspection regime proposed to be carried out by the Contractor shall be submitted for acceptance with the Tender. **!CHECK!**

!C!

Where a broken rail or serious rail defect as defined by Railtrack Line Standard RT/CE/S103 is discovered, the minimum action required by Railtrack Line Standard RT/CE/S103 to protect the line shall be taken, and the defect reported to the Employer's Representative specified in the relevant Particular Specification. **!CHECK!**

!C!

Where track at the location of a track or bridge renewal is handed over to Railtrack's track renewals or bridge contractor, inspection of the Permanent Way shall be carried out by Railtrack's track renewals or bridge contractor as applicable.

The results of inspections shall be recorded and retained for audit purposes with changes in condition from previous inspections clearly noted.

For inspection only contracts

The Railtrack Engineer to whom all defects shall be reported, and to whom a copy of the signed Inspection Reports shall be forwarded, is as detailed in the relevant Particular Specification. **!CHECK!**

!C!

For inspection and maintenance contracts

Where in accordance with this Section of the Specification, a defect is to be reported to the Employer's Representative, such reports shall be sent to the Railtrack Engineer detailed in the relevant Particular Specification. **!CHECK!**

!C!

(214.001)

Visual inspection of the track

214.002

Defects found during visual inspections of the track shall be marked in paint on the web of the rail, recorded and kept under observation.

During the passage of a train, the condition of the track under load from the passing train shall be observed at the location, and any defects noted, marked and reported.

Where emergency clamped fishplates and bridging pieces are installed, the tightness of each bolt shall be checked during each inspection, and any loose bolts retightened as necessary.

Switch toe openings shall be inspected and checked with the switches in both "normal" and "reversed" positions. Arrangements shall be made with the local signal box staff for the switches to be reversed to enable the inspection to be carried out.

Cross levels to circular and transition curves shall be checked during visual inspections for agreement with the datum values marked on the track. The cross level on straight track shall be checked. Any significant variations from the datum values or zero as applicable shall be reported.

Where gauge tie bars are fitted, the tightness of each bolt or turnbuckle shall be checked, and adjusted as necessary to maintain the correct gauge at the location.

Additional visual inspections shall be undertaken during periods of exceptional hot weather in accordance with Railtrack Line Standard RT/CE/S011, or other abnormal conditions in accordance with Section 220: Permanent Way Incident Management. **!CHECK!**

Alternative 1

Additional visual inspections shall be undertaken at the locations and frequencies listed in the relevant Particular Specification. **!CHECK!**

Alternative 2

Details of locations and frequencies where additional visual inspections are to be carried out shall be obtained from the track maintenance contractor.

Minor track defects such as loose keys discovered during visual inspections shall be rectified during the inspection. Refuges shall be kept clear of obstructions.

(214.002)

Level crossings

214.003

Inspections of features at all pedestrian and/or vehicular level crossings during each track inspection shall include:

- (i) testing of all telephones at all unmanned level crossings,
- (ii) provision and visibility of all signs at level crossings other than public road level crossings,
- (iii) surface of crossing,
- (iv) clearance of flangeways,
- (v) closure of gates at uncontrolled level crossings,
- (vi) cattle guards, where applicable,
- (vii) warning notices.

Any failure of a telephone at an unmanned level crossing shall be reported to the appropriate signal box at the first opportunity.

Gates of unmanned crossings found to be open shall be closed, and the users reminded of their obligations. Each open gate shall be reported to the Employer's Representative.

(214.003)