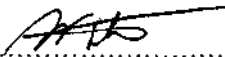


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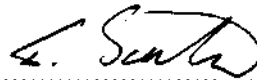
Critical Rail Temperature (CRT) Management Plan

Standard Project Procedure

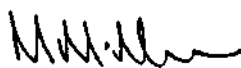
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 3 MARCH 2006
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Issue record

Issue	Date	Comments
One	7/12/2005	Conversion from work instruction MP&I/Eng/WI/0532

Implementation

The provisions of this procedure are mandatory and shall apply to MP&I Track Renewals Projects in all territories of Network Rail.

Compliance

This Standard Project Procedure supersedes existing MP&I work instruction MP&I/Eng/WI/0532 and as there is no material change to the content, must be complied with immediate effect – i.e. December 7th 2005.

It is the responsibility of the MP&I Track Senior Validation and Verification Engineer to ensure that all roles identified in this procedure are mapped to the relevant Territory/Area/Delivery Unit/other organisation.

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Supply

Copies of documents are available electronically within Network Rail's organisation. Hard un-controlled copies of this document can be printed from the business documentation site on connect, or requested from the relevant Project Manager, Programme Document Controller, or the HSQE Support Specialist MP&I.

Change control

Suspected errors and omissions or requests for change shall be reported to the Programme Engineering Manager MP&I (Track)

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1 Purpose

The purpose of this document is to define procedures that are to be followed for the identification, recording and management of sites requiring CRT management by MP&I track Renewals. This procedure does not have precedence over the requirements of RT/CE/S/011.

Note - Both documents must be read in conjunction with each other. If discrepancies are identified, then precedence shall go to RT/CE/S/011. MP&I's Programme Engineering Manager (Track) will provide a single point of contact for clarification of requirements.

2 Scope

This procedure shall be applied to all Plain-Line and Switches & Crossings Track Renewals, and associated works, undertaken by Network Rail, through the National Contracts delivered by the Programme Director (Track) for MP&I.

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3 Procedure.

3.1 Briefing the Critical Rail Temperature (CRT) Management Plan

- 3.1.1 It is the responsibility of both the PWC Engineering Manager & NR DPE(C) to familiarise themselves with, and assimilate the requirements of this procedure and RT/CE/S/011.
- 3.1.2 The PWC Engineering Manager and NR DPE(C) shall conduct briefing sessions for all personnel whose duties require them to have knowledge and understanding of this procedure and assure themselves of individuals understanding and competence to comply with its requirements. All briefings shall be recorded on Appendix A – CRT Management Plan briefing register which shall be retained by the CRT co-ordinator for audit purposes.

3.2 Identification of Stress Free Temperatures (SFT's)

- 3.2.1 Depot Managers are responsible for the identification and recording of SFT'S in accordance with RT/CE/S/011. SFT's must be assessed and recorded whenever the contractor disturbs the condition of existing CWR or, as a result of their works, creates a risk such as sub-standard ballast conditions, misalignment, or voiding.
- 3.2.2 For every site identified, SFT's shall be established and recorded at Depot Level by a competent person, by referencing all available information. This may include but is not limited to:
- "Form G" – Track Conformance Certificate, "Form C" therein. (See MP&I /ENG/WI/0533).
 - Obtaining SFT information from existing records and cross referencing them over the extents of the disturbance.
 - Using default values given in RT/CE/S/011 over the extents of the disturbance.
- 3.2.3 If in doubt, sites must "fail safe" and default to the lowest SFT obtainable.

3.3 Calculation of CRT(W), CRT(30/60), CRT(20)

- 3.3.1 Following the identification of a SFT and its extents, the Depot Manager is responsible for ensuring that a CRT(W), CRT(30/60), CRT(20) assessment for each site is carried out and documented.
- 3.3.2 CRT assessments are to be carried out, by a competent person, using all available information. This should include, but is not limited to information provided on the Form G – Track Conformance Certificate (Form C – therein). Calculated CRT's shall be documented on the "CRT(W) Assessment Forms 1-3" (See attached Excel Spreadsheets).

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- 3.3.4 The results of the assessment must be communicated to the IMT's nominated CRT Co-ordinator within 24hrs of any disturbance, and a copy of the completed "CRT Assessment Form 1-3", forwarded to the CRT Co-ordinator for record and audit purposes.

3.4 Recording and Reporting the CRT sites

- 3.4.1 The CRT Co-ordinator shall record all sites reported by depot staff centrally for the IMT. Dependant upon the reason for submission, a site shall be recorded on one of the following CRT Register tabs:
1. Unstressed Site (SFT = less than 21°C or greater than 27°C or unknown)
 2. Stressed Site (SFT = between 21°C & 27°C)
 3. Tamp, Stoneblow or MSP Site

Note – a template (Excell) registers can be obtained from the CRT Co-ordinator or the Senior Validation and Verification Engineer, MP&I Track.

- 3.4.2 Any site entered onto the registers must be supported by a completed "CRT(W) Assessment Form 1-3".
- 3.4.3 CRT sites shall remain on the register until Part 2 of the "CRT(W) Assessment Form 1-2" has been completed by a competent person, and received by the CRT Co-ordinator. The reason for removal of the CRT site must be documented, dated, and signed for by the person undertaking the assessment.
- 3.4.4 The CRT Register shall be updated daily by the CRT Co-ordinator upon receipt of information.
- 3.4.5 The CRT Register shall be distributed daily, by 10.00hrs, to all IMT Depot Managers for their assimilation, checking and management. The distribution list for CRT register shall be extended as required or deemed applicable by the NR PM, PWC CEM & NR DPE(C).
- 3.4.6 The CRT Register shall be sent out by 12.00hrs every Wednesday, for assimilation by the NR DPE(C), and forwarding to MP&I SV&VE Track.
- 3.4.7 Historical records of daily CRT Registers, and "CRT(W) Assessment Forms" shall be kept by the CRT Co-ordinator for a 12 month period for audit purposes.

3.5 Incremental Adjustment of CRT(W), CRT(30/60), CRT(20)

- 3.5.1 The CRT Co-ordinator will ensure that CRT(W),(30/60),(20) limits in accordance with RT/CE/S/011, para 14.2.3 - "Note". Incremental factors to apply shall be given on the "CRT(W) Assessment Form 1-2". If Actual Tonnage information is not available or provided, incremental increases shall "fail safe" to the minimum allowable (i.e. 0.5°C per week).