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Level 3

Disconnection and at risk processes for Telecom bearer circuits and systems including GSM-R equipment

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Issue record

Issue	Date	Comments
1	October 2007	First Issue
2	June 2008	Updated to reflect Phase 2A reorganisation
3	December 2010	Updated to reflect change of working practice
4	June 2011	Updated to include FTN/GSM-R process.

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 03 September 2011.

When this standard is implemented, it is permissible for all projects that have formally completed GRIP Stage 3 (Option Selection) to continue to comply with the issue of any relevant Network Rail Standards current when GRIP Stage 3 was completed and not to comply with requirements contained herein, unless stipulated otherwise in the scope of this standard.

Reference documentation

NR/L2/TEL/30067	The Transmission of Safety Related Information. .
RT/WI/TEL/00113	Wiring of copper Telecoms terminations.
NR/L2/MTC/0056	Work and Possession Planning for the Railway Infrastructure (Meetings Management Pack)
NR/L2/MTC/0086	Work & Possession Planning for the Railway Infrastructure: Change Control
NR/L2/SIG/10064	General Instructions to Staff Working on S & T Equipment
SMF/TE/0175	Telecoms Disconnection Request Form
FTN&GSMR/ENG/WI/043	Site Access and Control Procedures*
FTN&GSMR/ENG/WI/020	[FTN/GSM-R] Fault Management Procedures*
NR/L2/TEL/30088	Specification for Mast Inspections and Maintenance of Antenna Systems and Feeders

* denotes documents not yet formally migrated into NWR format at the time of publication.

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1. Purpose

This standard specifies the process to reach a clear understanding in applying for and agreeing the method of handover and handback of safety critical circuits including GSM-R equipment to minimise the risk of personal injury and train delay.

2.Scope

This Network Rail standard specifies the processes to be used when a telecommunications disconnection is required to Network Rail telecom assets or on any other equipment that can affect operational telecoms equipment. This process also applies to equipment deemed to be "At Risk" that might be affected by work being undertaken. The requirement for notification in the Weekly Operating Notice (WON) is also included if applicable.

This standard applies to all staff involved in planning and approving disconnection/ "At Risk" work activities on telecom bearer circuits and systems.

Disconnection of individual telephone instruments and circuits as specified in NR/GI/E041 (NR/L2/SIG/10064) is not within the scope of the standard.

RACI DETAILS	Applicant	Telecoms Maintenance Engineer	Interested Parties	Infrastructure Services Manager	Telecoms Engineering Control	TSCD	Competent Engineer	On site engineer
Process task								
5.1	X							
5.2	X	X						
5.3		X						
5.4		X						
6		X	X					
7		X	X	X				
8	X	X		X				
9	X	X	X					
10	X	X						
11	X	X	X					
12.1	X	X						
12.2	X	X						
13					X	X		
13.1					X			
13.2					X			
13.3						X		
13.4					X	X		

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13.5					X			X
13.6								X
13.7					X			
13.8					X			X

Table 1 – RACI

3. Definitions and abbreviations

3.1 Definitions

For the purposes of this standard, the following terms and definitions apply.

At Risk

working on “Live” cables/circuits and systems where there is a risk of failure if work does not go to plan

Date of application

date the disconnection form was submitted for consideration and not the date of the work

Interested parties

companies, organisations, departments or individuals with involvement in the equipment or systems affected by the proposed disconnection

3.2 Abbreviations

ISM

Infrastructure Service Manager

SCADA

Supervisory Control And Data Acquisition.

SMP

Standard Maintenance Procedure.

SMTH

Signal Maintenance Testing Handbook.

TME

Telecoms Maintenance Engineer

TMT & FIH

Telecoms Maintenance Testing & Failure Investigation Handbook

WON

Weekly Operating Notices

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Competent Engineer

The engineering representative managing the technical aspects on behalf of Stoke TEC

On Site Engineer

The representative of telecom maintenance who is controlling “on site” engineering activities.

TSCD

Telecoms Support Centre Doncaster

ALARP

As low as is reasonably practicable

BSS

Base Station Sub-Systems

BTS

Base Transceiver Station

CE

Commissioning Engineer

DPM

Delivery Project Manager

FIH

Failure Investigation Handbook

GPH

General Purpose Handset

GRIP

Guide to Railway Investment Projects

GSM-R

Global System for Mobile Communications -Railway

LE

Lead Engineer

NME

Network Management Engineer

OMC-r

Operations and Maintenance Centre – radio

OSS

Operational Support System

PTS

Personal Trackside Safety

RBS

Repeater Base Station