

TECHNICAL INSTRUCTION

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Issue 1
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NETWORK RAIL - SIGNAL ENGINEERING

Reverting Control from SMARTLOCK to SSI

Relevant Standard: NR/L3/SIG/11231 - SMTH

Background

Signalling Solutions Limited (SSL) will be introducing their Computer Based Interlocking – SMARTLOCK, onto Network Rail Infrastructure for Stage 3 of the Operational Pilot at Three Bridges ASC. This will place control of the HORSTHRB, HORSBILL and HORSDORK SSI areas under the control of the SMARTLOCK Interlocking.

It is a requirement of the Network Rail Infrastructure-System Review Panel that a robust fallback procedure is in place, such that in the event of a failure requiring the re-instatement of the SSIs, this can be achieved with the minimal disruption to operation of the railway. Accordingly a decision making process has been agreed for the Network Rail SFI level 3 staff to determine when this shall be invoked.

The following procedure details the actions required to execute the fallback to SSI and shall only be used as directed by the SFI level 3 individual.

All Maintenance staff who may be called upon to perform the fallback shall be briefed on the use of this procedure and shall sign a record to indicate their understanding.

A record shall be made of the use of the procedure by completion of a Signalling Maintenance Testing Logbook entry, referencing this Technical Instruction number as the Test Plan.

Compliance Requirements / Staff to be Briefed

This procedure is relevant to Signalling Technicians and Maintenance staff (and their supervisors) at Three Bridges ASC, Horsham Depot and Barnham Depot only.

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***** THIS PROCEDURE APPLIES ONLY TO SMARTLOCK EQUIPMENT INSTALLED AT THREE BRIDGES AREA SIGNALLING CENTRE FOR THE DURATION OF THE OPERATIONAL PILOT *****

***** INDEPENDENCE IS REQUIRED FOR CONFIRMATION OF TECHNICIANS CONTROLS PRIOR TO THE DISABLING OF SMARTLOCK AND AFTER REINSTATEMENT OF SSI CENTRAL INTERLOCKING *****

***** A SIGNALLING MAINTENANCE TESTING LOGBOOK ENTRY SHOULD BE MADE AS A RECORD OF COMPLETION OF THIS PROCEDURE, REFERENCING THIS PROCEDURE AS THE TEST PLAN *****

Includes: Resuming signalling interlocking of the Operational Railway to SSI control from the trial SMARTLOCK system

Excludes: All other SMARTLOCK or SSI faults and procedures.

General

Following a failure of the signalling system in which the SMARTLOCK interlocking has been diagnosed as the cause, and the decision "Fallback to SSI" has been reached, the procedure identified in this instruction shall be carried out.

Before Disconnection

1. Paperwork and Observations

1.1 Carry out Rule Book section T1A Section 2. Use form RT3187 to sign SMARTLOCK out of use.

1.2 Check with the signaller that all trains have stopped.

Note: Any trains stopping mid route [e.g. over points] should be moved to the next stop signal under hand signalling regulations, provided they will remain clear of all points at this position.

1.3 If the SMARTLOCK system remains operational, take a print copy of the SMARTLOCK Technicians Controls (for reference of controls in place at this time).

1.4 Compare the print controls with the Technicians written record of controls, establishing the reason for any differences.

Note: Independent Check required at this time.

1.5 Inform the signaller that multiple alarms will be raised on the Panel and TD system during this procedure.

1.6 Check that all the SSIs are powered up and disabled by issuing a "stop interlocking" command on the SSI Technicians Terminal.