

TECHNICAL INSTRUCTION

TI 159
Issue 1.0
25 May 2011
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NETWORK RAIL - SIGNAL ENGINEERING

Process for the Campaign Conversion of Aster to Aster21 TC's

Relevant Standards: NR/L3/SIG/11231 - SMTH, TI 160

Purpose

This Technical Instruction provides the process to be followed in the campaign change of Aster Type U/SF15 to Aster21 track circuits using EBI Track 200 modules. It provides the information and guidance required to enable the maintenance organisation to make a judgement on whether they can carry out the work. This TI shall be used in conjunction with the Campaign Change Test Plan TI 160.

Scope

This TI applies to the campaign change programme being carried out by the appropriate delivery units that have Aster track circuits and managed by the RAM (S&T) for the applicable route. It shall not be used for any other changes. The Sites that this and the supporting TI can be applied to have been identified within the campaign change remits / investment papers. This does not automatically mean that the change can be made, as each site shall be assessed to consider the viability of doing the campaign change by the RAM (S&T).

This TI also mandates that Aster equipment removed from Operational use shall be decommissioned in a controlled way and shall be returned in an operational condition to Strategic Spares via NDS.

Abbreviations & Definitions

AS&TME	Assistant Signal and Telecoms Maintenance Engineer
IME	Infrastructure Maintenance Engineer
RAM (S&T)	Route Asset Manager (Signal and Telecoms)
S&TME	Signal and Telecoms Maintenance Engineer
SMTH	Signal Maintenance Testing Handbook.
TI	Technical Instruction (NR/L2/SIG/11120)
Aster21	An Aster21 is a hybrid Aster track circuit using EBI Track 200 Tx, Rx and TU's equipment
SIN	Special Inspection Notice

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Compliance Requirements

The requirements of this TI apply to the sites that have been listed within the campaign change remits / investment papers for the conversion of Aster track circuits to Aster21s.
It shall not be used for any other site.

Note - Once a track circuit has been changed and brought into use using the campaign change process, any subsequent replacement due to failure / damage etc. shall be made under the SMTH process.

Delivery of the Campaign Change work

In order to do this work the IME and S&TME shall carry out the assessments described below and appoint suitable people to the roles described below. For the purposes of this TI, the IME and S&TME are collectively called the Depot Campaign Change Management Team.

The RAM (S&T) should insure that the delivery unit has a process in place that gives assurance that the Depot Campaign Change Management Team are competent to discharge the responsibilities in this process.

1. Assessment to Deliver

The Depot Campaign Change Management Team shall assess and document the ability of their depot to deliver the requirements of the campaign change using this and the specific Campaign Change Test Plan TI160.

This assessment shall consider the following:

- Current work load and maintenance requirements
- Financial Authority or other funding method.
- Commitment to other work
- Provision for Final Design to be carried out.
- Capability and competence of staff selected and appointed as:
 - o Depot Campaign Change Site Assessor to perform the Site Assessment (see competency guidelines)
 - o Depot Campaign Change Designer to create the required design (see competency guidelines)
 - o Depot Campaign Change Checker to check the required design (see competency guidelines)
 - o Depot Campaign Change Installer to deliver the actual work (see competency guidelines)
 - o Depot Campaign Change Tester to test the installation (see competency guidelines)

During the assessment, should the Depot Campaign Change Management Team believe that the depot can not deliver the full requirements of the campaign change they shall advise the RAM (S&T) for further guidance.

Where a depot has the ability to deliver the work they may wish to support a neighbouring depot that has not. In this case the work shall be managed totally by the depot that has the required skills and resources. They may use staff from the "owning" depot to assist, but the Depot Campaign Change Management Team from the depot delivering the work shall be required to assess the competency of these staff for suitability.

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