NR/L2/SIG/30014/G130/AP51
Non-Conceptual Test Plan
Install a TPWS Filter Module
Issue No. 01
Issue Date: 03/09/11
Compliance Date: 03/09/11

Safety:

The installation work shall be carried out by a competent person independent of the person undertaking the testing

Includes:	Installation of a TPWS filter module into the TPWS trackside equipment.
Excludes:	Installation of any other filter module into any other equipment type.

BEFORE INSTALLATION WORK

01 Check baseplate is Not Damaged.

02 WIRE COUNT baseplate to wiring diagram.

03 Check that existing wiring has safe insulation.

04 Check that existing wiring is correctly labelled.

05 WIRE COUNT and label the wires on terminals 9 and 12 on the TPWS plugboard panel.
(The labels shall be tied to the wire and shall say “XX TPWS * #” (* means write OSS or TSS as appropriate and # means write T9 or T12 as appropriate). XX is the TPWS number. As an example - R398 signal TSS T9 wire would be labelled “R398 TPWS TSS T9” and the T12 wire would be labelled “R398 TPWS TSS T12”.

06 Check baseplate is Isolated from the power supply

INSTALLATION WORK

07 Fit the Filter Module to the terminal side of the baseplate by hooking the slots of the plate into the terminal separators and secure into position by securing tie-wraps through the holes at the bottom of the separators.

08 Remove the connection to terminal 9.

09 Insert the yellow wire of the filter module that is terminated with a spade terminal into terminal 9 and secure.

10 Cut the spade terminal of the wire removed from terminal 9 as close to the terminal as possible and strip back 8mm of insulation.

11 Place the stripped wire into the in-line crimp associated with the yellow wire of the filter module and crimp with a crimp tool compatible with an AMP butt splice.

12 Remove the connection to terminal 12.

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13 Insert the blue wire of the filter module that is terminated with a spade terminal into terminal 12 and secure.

14 Cut the spade terminal of the wire removed from terminal 12 as close to the terminal as possible and strip back 8mm of insulation.

15 Place the stripped wire into the in-line crimp associated with the blue wire of the filter module and crimp with a crimp tool compatible with an AMP butt splice.

16 Tidy the installation by placing the filter module wiring into the fixed conduit as appropriate.

17 Mark up the diagrams to show the additional capacitor.

AFTER INSTALLATION WORK

18 Check TPWS Filter Module is Correctly Installed and secured.

19 Check wiring has yellow wire of TPWS Filter Unit in Terminal 9 and the blue wire in Terminal 12 of the baseplate. Check the wire previously labelled and marked as XX TPWS * T9 is crimped into the in-line crimp associated with the yellow terminal and that the wire previously labelled and marked as XX TPWS * T12 is crimped into the in-line crimp associated with the blue terminal.

20 WIRE COUNT the baseplate to the wiring diagram. Where the installer has amended the wiring diagram, Check that the amendment correctly reflects the installation work done

21 TPWS TRACKSIDE EQUIPMENT MAINTENANCE TEST
(INSTALLATIONS NOT ON SLAB TRACK)

22 TPWS TRACKSIDE EQUIPMENT RENEWALS TEST
(INSTALLATIONS ON SLAB TRACK ONLY)

23 Record the test details on the appropriate NR/SMS record card along with the reasons for the test

24 Remove the labels previously installed at step 05.

24 Advise the Section Manager (Signals) that the modification has been completed and whether the installer has modified the diagrams and that therefore new diagrams are required

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