

Points Heating - Electric

1 'C1' Examination – On Site Inspection and Test

1.1 Control cubicle / Satellite Distribution cupboard

- a) Visually check cubicle for satisfactory condition and security.
- b) Check all moisture and temperature sensors for satisfactory condition and security.
- c) Check labels/notices for presence, security and legibility.
- d) Check door handles, locking mechanism and locks for satisfactory condition and security. Lubricate, if required.
- e) Check indicator lights, push buttons, switches, fuse holders and MCBs for satisfactory condition and security.
- f) Check settings on controller and record any error codes
- g) Manually test and reset any residual current devices.
- h) Check that the anti-condensation heater and cubicle lamp (if fitted) are operable.
- i) Remove any litter/vegetation from inside and around the outside of the cubicle.

1.2 Transformers (Any Location)

- a) Visual check of transformers for satisfactory condition and security.

1.3 Heaters and Temperature Probes

- a) Check that all heaters and shields are securely attached. If any clips are missing, loose, detached or ill positioned – fit new clips as required. Clips shall not be re-used.
- b) Check that all temperature probes are secure. Check that the hot and cold rail probes are correctly positioned.
- c) Check that all track junction boxes are secure and undamaged.
- d) Check that all leads, harnesses and probes are secure and undamaged.
- e) Spray the hot and cold probes with freezer spray and check for operation.
- f) Check operation of precipitation sensor by spraying with water.

1.4 On Site Heater Test

- a) Turn control system to manual and confirm that heaters operate. This should be achieved by thermography. Where a thermographic camera is not available heater current measurements should be taken. Direct temperature measurement on track should be performed if no other option is available.
- b) Restore all installations to their correct operational status.
- c) Prove that the Signaller's manual switch operates correctly.

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2 'C2' Examination – Remote Status Check

Where remote monitoring is functioning:-

- a) Connect to remote location.
- b) Switch the system on and record rising currents and temperatures.
- c) Review historical data for the previous month for anomalies.
- d) Check settings and for any error codes.
- e) Return to service.

Where remote monitoring is not functioning and local temperature indication / error codes are available :-

- a) Check settings and for any error codes.
- b) Switch the system on to manual and confirm that heaters operate. This shall be achieved by thermography.
- c) Restore all installations to their correct operational status.

3 'C3' Examination – On Site Status Check

Where local temperature indication / error codes are available :-

- a) Check settings and for any error codes.
- b) Switch the system on to manual and confirm that heaters operate. This shall be achieved by thermography.
- c) Restore all installations to their correct operational status.

4 'D' Examination

4.1 Insulation Testing

- a) Where heating is incompatible with the track circuit, carry out insulation resistance testing on all transformers, heaters, cables and harnesses. Insulation values of heaters and track cables must exceed 2MΩ.

All results must be recorded for 'performance monitoring' purposes (see EPF/LV/001).

5 'F' Examination

5.1 Examination

Precipitation/Temperature sensors

NOTE This test is to be performed before the heating is energised.