

Condition of Points Heating - Electric

1 'F' Examination

1.1 Condition Assessment

A scored assessment shall be performed on each points heating installation every year and recorded on SMF/EP0254.

Scores are required for each group. The scoring system is shown on the following page.

Control cubicle & Transformers (1 – 5)

Each control cabinet and every associated transformer shall be scored on site and the average calculated and input into Ellipse.

110V Distribution & Heaters (1 – 5)

Each point end shall be scored 1-5 on site and each number put into Ellipse.

Whenever a renewal is proposed, supporting pictures shall be available, in addition to the periodic electrical inspection information and the latest SMF/EP0254.

Condition pictures and latest SMF/EP0254 asset report of complete installation shall be provided when any 4 or above is recorded.

Condition of Points Heating - Electric

Control cubicle & Transformers Equipment condition ratings		
1	Good	Sound modern electrical and mechanical components in "as new" condition all operable and well maintained.
2	Fair	As 1, but showing superficial wear and tear. Efficiency undiminished. Minor oil leaks and gland wear evident. Protective coatings still intact. Unlikely to require major overhaul or replacement within 10 years.
3	Acceptable	All components functioning acceptably but showing significant wear and tear with minor failures, efficiency has diminished. Corrosion becoming apparent. No major work likely to be required within 5 years.
4	Poor	Function and/or running costs significantly affected by failures or maintenance needs, still functioning as 3 but effective life exceeded, requires major overhaul within 5 years.
5	Awful	Electrically unsafe, Health and Safety risk, not working or out of commission because unsafe to use, too unreliable or costly to run. Requires immediate replacement.
110V Distribution & Heaters Equipment condition ratings		
1	Good	Sound modern electrical and mechanical components in "as new" condition all operable and well maintained.
2	Fair	As 1, but showing superficial wear and tear. Efficiency undiminished. Minor wear evident. Cables still intact. Unlikely to require major overhaul or replacement within 10 years.
3	Acceptable	All components functioning acceptably but showing significant wear and tear with minor failures, efficiency has diminished. Corrosion becoming apparent. No major work likely to be required within 4 years.
4	Poor	Function and/or running costs significantly affected by failures or maintenance needs, still functioning as 3 but effective life exceeded, requires renewal within 4 years. Cable insulation in >2 to 5 MΩ range.
5	Awful	Electrically unsafe, Health and Safety risk, not working or out of commission because unsafe to use, too unreliable or costly to run. Requires immediate replacement. Cables <2 MΩ range.