

The following text is proposed to be added following the last paragraph of the clause as 7.2.2.1 of IEC60214-1

### **Thermal Endurance Test for Electrical Contacts of Off-Circuit Tap Changers**

This test is designed to demonstrate thermal stability of the electrical contacts using accelerated life testing techniques. The selected temperatures and currents are intended to represent 30 years of product life with a 30-day test. Each day represents one thermal cycle of hot contacts carrying current as well as cool-down conditions.

The test is conducted by passing 2 times rated load current through the tap changer in an oil bath of 130° C for 8 hours followed by 16 hours of cool-down with no load and no heat supplied to the bath.

Electrical resistance across the contacts is measured at the start and following each thermal cycle. The test is considered passed successfully if:

1. Resistance change is less than 25%
2. Stability is reached at the completion of the test.