

'Bender' IRDH265 (RS2) Readings and test instructions

1 Scope

Includes: 'Bender' IRDH265 insulation monitors and / or EDS470 fault location devices (also known as RS2).

2 Method

2.1 'C' Examination

2.1.1 Insulation Monitoring without Intelligent Infrastructure

Observe and Record on Form EPF/LV/012

- the current system earth resistance reading,
- alarm 1 & 2 status,
- The levels at which the alarms are set,
- any other individual feeder alarms.
- general weather conditions
- ground conditions

NOTE Observations of weather and ground conditions are needed to allow an assessment to be made regarding the effect of water on the reading.

2.2 No alarms activated

If alarms 1 or 2 are activated follow the steps in 2.3 before undertaking tasks 2.2.1 and 2.2.2 below.

2.2.1 Operate and hold in the Test/Reset button for >2sec. The display should indicate 'TEST', followed after a short period by 'TEST OK R<1kΩ', with the Alarm 1 and Alarm 2 indications lighting. This indicates the test is successful. If the display changes to 'TEST ALARM', report this as a corrective maintenance issue.

2.2.2 Reset the unit to normal operation by pressing the Test/Reset button for <1sec.

2.3 Alarms activated

Actions to be taken if alarm 1 or 2 have activated

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2.3.1 Check that the Power LED is lit and there is occasional activity on the RS485 communications bus LEDs on the EDS470-12 and PGH471.

2.3.2 If Alarm 1 was noted the ESD470-12 should have activated and will have scanned the feeders for faults. Any alarms indicated on Alarm, Fault, or K1-12 indications should be noted.

A flashing indication on LEDs K1-12 indicates that the relevant feeder is under test whilst a steady indication displays a fault condition on that feeder.

All alarms shall be reported as corrective maintenance issues on Form SMF/LV/012.

2.3.3 Once any alarms in step 2.3.2 have been noted, reset the EDS System by pressing the 'TEST RESET' button for > 2sec. The IRDH265-3 can then be reset utilising steps 2.2.1 and 2.2.2.

2.3.4 Monitor the system for a period of 5 minutes for further alarms. Report any alarms as corrective maintenance issues.

3 References

If applicable refer to the following associated documents:

- EPF/LV/012 Insulation resistance monitoring device record form

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