

## Scope of Work – Eaton Xiria

### Inspect the cable connection in accordance with the following procedure:

1. Open the cable connection compartment in accordance with the procedure described.
2. Clean the compartment with a dry cloth.
3. Check the cable plug connection according to the plug supplier's instructions. Ensure that the cable does not impart any mechanical strain on the plug. The cable forces are to be absorbed by the cable support.
4. Check the cable support. The cables must be secure in the cable clamp blocks. Check that the bolts are still tightened to a torque of 20 Nm, see Cable assembly instructions.
5. Check the earth connections:
  - Between cables and earth strip;
  - Between the earth strip and the enclosure;
  - Between the earth strip and the system earth;
6. Close the cable connection compartment

### Inspect the switching functions in accordance with the following procedure:

1. Check with the person responsible for the unit whether the relevant unit is disconnected and ready for inspection.
2. Verify, in consultation with the person responsible for operations, that the relevant panel is disconnected so that the inspection can be carried out safely. Satisfy yourself at the same time that the cable connected is and will remain dead.
3. Place the switch in the OFF position and the change-over switch in the earthed position.
4. Complete all switching operations described in the short-form instructions. Always carefully check that the operation produces the desired result. Check the position indicators on the control panel and the actual position of the change-over switch and the vacuum interrupter through the viewing windows.
5. If an operation has not produced the required result according to the position indicators or when the actual position of the change-over switch is checked, shut down the unit and inform Eaton.

### Inspection of the moisture-absorbing agent

Check the operation of the moisture-absorbing agent in the unit with a colour indicator. This is located behind the centre viewing window of the right-hand panel.

The indicator should be pale blue in colour.

Under normal operating conditions, the moisture level inside the Xiria unit is <15% due to the Silica Gel bag placed inside before the enclosure is sealed.

When the moisture indicator turns pink instead of blue, the moisture level inside the switchgear unit is more than 40%.

This sticker is placed on the front of the unit

#### **Moisture indicator**

**Blue = OK**

**Pink = see manual**

#### **Testing voltage detection**

Refer to Appendix 2 of this manual for inspection and maintenance of the voltage detection system.

#### **Inspecting the protection relay**

Refer to the manual provided by the relay manufacturer for inspection and maintenance of the protection relay.

The most recent version can be obtained via the internet at <http://doc.newage-avkseg.com>.