



Technical Bulletin

TB 0279 – Commissioning of 24kV Siemens 8DJH RTRR-C Compact Switchgear

Purpose

To detail actions following a failure of a telcon termination during commissioning of 24kV Siemens 8DJH RTRR-C compact switchgear.

Background

A failure during commissioning of a Siemens 8DJH RTRR-C (4 way compact) switchgear and associated cable tail has occurred. The investigation is ongoing but the initial findings indicate damage to the cable termination due to ineffective separation between the cable termination, the switchgear and potential damage during transportation. The actions below are a result of a risk assessment.

Actions

Siemens 8DJH RTRR-C (4 way compact) HV switchgear, stockcode 1547959 is restricted to use in 22kV networks only. The Endeavour Energy approved product for 11kV network in accordance with TB 0265 – MV Metal Clad Switchgear (Ring Main Unit) is ABB Safelink for 4-way switchgear.



Figure 1: Pre-commissioned C-phase telcon termination with new clamp. Check for marks and damage and adequate separation prior to commissioning.

The Endeavour Energy padmount cubicle design includes strict dimensional constraints with suitable tolerances. Care must be taken during the installation process to ensure an adequate air gap is present between the cable termination and the switchgear. This applies to all padmount substation manufacturers / suppliers as well as installation.

The following is added as a commissioning check to SDI120 for HV switchgear. It must be confirmed on FNV1043 'suitability for service of electrical equipment' commissioning form:

- The telcon termination to switchgear clearance visibly confirmed as having a suitable clearance
- The above can be confirmed by measurement from the transformer flange to the back of the switchgear of a minimum 150mm.

Impacted Standards

SDI120 – Testing and commissioning for distribution systems

MCI0006 – Underground construction manual

SDI210 – Siemens 8DJ10, 8DJ20 & 8DJH 12/24kV Switchgear

Contacts

For further information contact;

Evan Riddell – Senior Engineer, Distribution Substation Assets (02 9853 6011)

Beau Radford – Field Operations Manager (02 9853 4085)