



Technical Bulletin

TB 0203 - Power Transformer Main Terminations

Purpose

Detail Endeavour Energy's standard arrangement for cable termination to power transformers.

Background

The power transformer specifications detail the termination requirements for use in Endeavour Energy's network.

Traditionally the specifications have allowed for either outdoor style bushings or plug-in style terminations for the 132kV or 66kV end. Plug-in connected power transformers pose operational and maintenance issues which are not cost effective to manage.

Actions

To allow for ease of maintenance, network emergency response and appropriate allocation of essential spares; plug-in style terminations for power transformers shall not be installed in Endeavour Energy's network or purchased hereafter.

The 132kV or 66kV terminations shall be outdoor type oil-air or resin impregnated paper bushings

The 11/22/33kV connections shall be bushing or air insulated cable box.

Other terminations, including plug-in style shall only be used upon explicit approval of the Chief Engineer in accordance with Company Procedure GAM 0114 – Granting Dispensations from Engineering Documents.

Cable sealing ends inside or outside of the oil containment bund shall be as detailed in SDI 540 – Transformer oil containment.

Implementation

This bulletin takes effect immediately for all purchases of power transformers.

Impacted Standards

The contents of this technical bulletin will be included in the next update of the following standard(s):

- ETS 0005: 15MVA, 25MVA and 35MVA power transformers
- ETS 0006: 45MVA, 60MVA and 120MVA power transformers
- SDI 540: transformer oil containment