

Technical Bulletin

TB 0350 - Categorisation of Substation Polymeric-type Bushing Defects for Substation Inspection Programs

Date: 12/06/24

Purpose

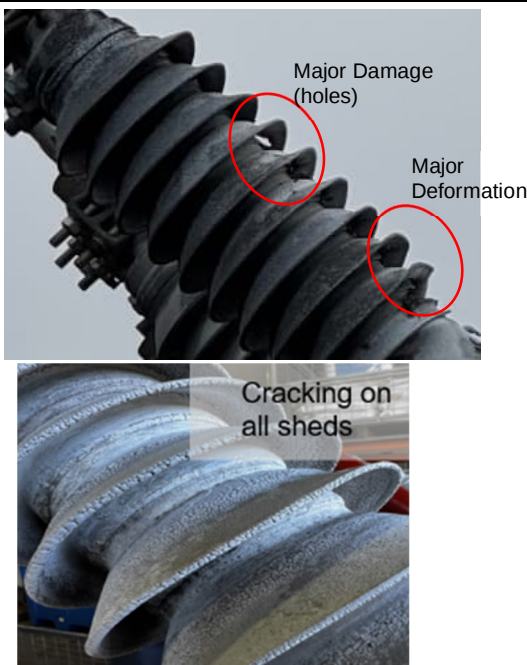
This technical bulletin has been issued to communicate the categorisation and prioritisation of defects on circuit breaker polymeric bushings, to assist in defect identification associated with the 6-monthly substation inspection activities.

Background

Recently Endeavour Energy has experienced an increase in failure rates of polymeric bushings within substations resulting from defects not being recognised and actioned appropriately.

Actions

Bushings shall be visually inspected as part of the substation inspection program and any identified as being in poor condition shall be defectured, HD photos taken of each bushing, a SAP **Notification** raised (with photos attached) **to the SAP equipment number**, and replaced as per the actions in the below table.

Defect Description	Photos	Actions
Polymeric Insulator – Major Damage/Deformation - All sheds display cracks or holes. - More than half of the sheds display major deformation or warping		Inspector to Raise SAP Notification: - SAP Priority 6 (1 month) - Attach Photos - STD JOB 1TRBSH Issue Notification through SAP to the Work Center. Work Centre will review and create WOs as required.

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Defect Description	Photos	Actions
Polymeric Insulator – Minor Damage - Damage to 3 or more sheds. - Cracking on 3 or more sheds - Insulators have lost their hydrophobic properties		Inspector to Raise SAP Notification: - SAP Priority 9 - Attach Photos - STD JOB 1TRBSH
Polymeric CT Cover/Boot – Damage - CT cover boot had lost its hydrophobic properties. - Significant cracking/damage on CT cover		Inspector to Raise SAP Notification: - SAP Priority 9 - Attach Photos - STD JOB 1TRBSH

Photos are required of all six bushings on a CB with any singular bushing defect to assist in the PMO and Asset Management prioritisation and defect tracking process.

The standard job 1TRBSH has been created for tracking and rectifying these defects. Activities required as part of the standard job include:

- Replacement of all six (6) bushing on the CB
- Replacement of the CT cover

This technical bulletin applies to the polymeric bushing of any asset type in Zone and Transmission Substations.

Implementation

The contents of this Technical Bulletin shall be implemented immediately and be maintained until such time the Technical Bulletin is withdrawn.

Contacts

For further information contact:

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