



Transformer Failure Investigation Support

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Ref: IEEE C57.125: 2015 - Guide for Failure Investigation, Documentation, Analysis, and Reporting for Power Transformers and Shunt Reactors

Support during Failure Investigation

- Provide guidance to collect data and proof, using structured templates along with recommended tests on failed units.
- Review on-site or off-site data, witness to un-tanking or tear down process.
- Perform RCA analysis using various proven Quality techniques to understand the failure mode, causes.
- Submit the failure investigation report with root cause, CAPA recommendation and render guidance to asset owners strategy for their repair or replacement

JS TrafoEnergy Expertise

Electrical & Mechanical design
Knowledge on IEC/IS Standards
Understanding on Failure Modes/Causes
Familiarity with life assessment tests
Experience in Transformer refurbishments

Our Process

Comprehensive failure data collection in TR specific templates defined in IEEE C57.125

Analysis of failures using Mind map & 5-why analysis

Failure report with Root cause analysis, CAPA recommendations

We guide OEMs to decide on the strategy on repair or replacement

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Role of JS TrafoEnergy

Provide template for data collection

Review of the following

- General observation
- Fluid test results
- Alarm and trip events
- Electrical tests results
- Internal inspection of active parts

Identify the failure types

- Dielectric
- Thermal
- Others

Root cause Analysis

Failure investigation report with action point & CAPA

Why Choose JS TrafoEnergy?

- ✓ **37+ years** of Experience in Transformer Engineering
- ✓ **Unbiased** evaluation, free of manufacturer influence
- ✓ Consultant exposure to **multiple technologies**
- ✓ Past **Experience** in the failure investigations

For further details, please contact

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