



LONG TERM PRESERVATION PROCEDURE

1. PURPOSE

To provide instructions for long term storage of the transformer(s).

2. STORAGE

- 2.1 VanTran transformers are shipped with the internal construction thoroughly dried at the factory and the oil at the correct level.
- 2.2 Transformers are shipped with a 2-psi dry nitrogen blanket.
- 2.3 Transformers should always be stored with the transformer filled with insulating fluid to prevent possible contamination and absorption of moisture.
- 2.4 Storage for 90 days or less
 - 2.4.1 The transformer should be stored, as much as possible, in a dry location with no rapid or radical temperature changes.
 - 2.4.2 The transformer should be stored, as much as possible, on its permanent foundation. If the permanent foundation is not available, the transformer should be placed in an upright position and on a level foundation capable of withstanding the weight of the unit without deformation.
- 2.5 Storage for more than 90 days
 - 2.5.1 It is recommended that the nitrogen blanket be maintained by adding a bottle of dry nitrogen through a regulator to the transformer tank. Positive pressure is necessary to avoid moisture ingress into the transformer. If the unit is equipped with anti-condensation heaters in the control cabinets, the heaters should be energized and checked for proper operation.
 - 2.5.2 Transformers with enclosed air-filled spaces, such as control cabinets and air terminal chambers, should be supplied with an appropriate amount of moisture absorbing desiccant packets. Desiccant should be monitored and replaced in regular maintenance intervals as moisture levels dictate.
 - 2.5.3 Perform a visual inspection every 90 days.
 - 2.5.3.1 Pressure and oil level should be representative of ambient conditions.
 - 2.5.3.2 Gaskets and seals of the tank cover inspection plate, bushings, gauges, fuses, operating devices, and accessories should be inspected for possible insulating fluid leaks.
 - 2.5.3.3 Paint to ensure there is no rust or deterioration.



2.6 Removable Radiators

- 2.6.1 VanTran ships all transformers, when possible, completely assembled and ready for use.
- 2.6.2 If removable radiators are shipped separately to accommodate shipping or space requirements, radiator openings are shipped with temporary protective caps. Ensure these protective caps are tightly sealed before storage.