

Project Title : Cascaded Test Transformer 200 kV 10 kVA

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Abstract

This report presents the design and construction of a prototype of an insulating shell cascaded test transformer rated at 200 kV, 10 kVA 50 Hz, which comprises of two identical oil-immersed three windings transformers. Kraft paper is used as an insulation between layers of the windings. The copper shields are inserted for controlling the voltage distribution of the high voltage winding. Transformer oil is used as a space insulation and cooling. The insulating shell is made of PVC cylinder. The design criteria are mentioned. The details of material and construction are given. The procedure and assembly process are described. The test were performed in accordance with the IEC recommendations. The test results show that the constructed test transformer has good qualities and performances complying with the specified standards.