

ABSTRACT

Transformer is a vital component which distribute electric wave. The use of transformer is for up or down voltage. The object of this research case process of writing is to find out the result of recondition transformers should have a good value of insulation resistance. The value of insulation resistance adapted by the level of water in the transformer. There are two the tools for reduce the level of water are heater room (oven) and injection system. The direction of

Heater room (oven) is a room for cleaning up the level of water in the transformer with 46 heaters applied in. This heater room can load 8 tranformers an could run with 380 V. The heater can reach 100°C temperature when it runs.

There is a control system that controls temperature automatically, if the temperature reach 100°C the heater will be shut down and if the temperature reduce until 65°C the heater will be turn on again automatically. Injection system is a tool for eliminating the level of water using heat that caused by the current of full resistance in the the secondary side that short-circuit. Injectioning is doing with inject voltage 380V at primary side and short-circuit secondary side.

Keywords : Transformer, Heater room, Injection system, Insulation resistance.