ABSTRACT

When a transformer loaded it will arise a power losses is converted into heat. The heat is going to be raising the temperature of the transformer. The bigger load is accepted, then a losses will become increasingly large and cause the rise in temperature is higher and can exceed the limits allowed. This can cause damage to the transformer. Therefore, extensive media cooling fans in the form of a transformer. It aims to reduce the temperature. With the fall of temperature, then it can lower the power losses as to raise the efficiency of the transformer.

In this final project is analyzed the influence of ONAN cooling/ONAF on transformer. The analysis is done using data test and losses that occurs at temperatures without load and full load on a transformer in GI Sutami was unfortunate. Results achieved in the form of change of resistance, current, and power losses of load and temperature variables. To get a better level of efficiency, can be done by lowering the temperature of the transformer so that the losses will come down and the life time of the transformer to be longer.

Keywords: power transformer, power losses, temperature, variable load, cooling ONAN / ONAF, increased efficiency
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