

Leakage Current Measurement & Analysis for Arrester Life Prediction

Tanmay Gajkal, Pranav Bachhav, Mrunmayee Choudhary

Under the Guidance of **Prof. Dr. S A Patil**

Department of Electronics and Telecommunication Engineering,

K. K. Wagh Institute of Engineering Education and Research, Nashik, India

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

Email-gajkalt@gmail.com , psbachhav370222@kkwagh.edu.in , Choudharymrunmayee21@gmail.com

Abstract: *The Electricity is a most important resource that is required in day to day life. Due to increase in use of electronics, electricity distribution center has grown in number. Source of electricity is high voltage power stations which are required to protect using surge arrester. Over voltages occurring due to lightening leads to breakdown of surge arresters. This may lead to catastrophic failure. This effect is severe in high voltage power stations. Therefore it is important to protect element which makes the surge arrester. Power dissipation is one of the important characteristic which relates to the breakdown of the arrester. The main cause of power dissipation is the leakage current present in the element. Therefore to overcome the loss due to power dissipation and hence to protect the arrester from failures it is important to measure the leakage current flowing through the basic element which will help to protect the arrester in whole.*

Keywords: Electrical Power stations, surge arreseter, powerloss, leakage current, measurement

