ABSTRACT

As state-owned enterprises, PT. PLN P3B Jawa – Bali has to complete the operation standard of the equipments performance. One of the equipment which is the most important role in electric power transmission system is a power transformer. Failure in power transformers often cause interference with the transmission system. Therefore, please note the condition of power transformers. The condition of the transformer can be detected by doing Sweep Frequency Response Analysis Test. From the testing that has been conducted, and analyzed to obtain the condition of transformer. After the transformer condition is known, its reliability can be estimated by applying the predictive system maintenance. The system is very much associated with the reliability of electric power equipment. The application of stochastic methods used to determine the reliability of power transformers. One of the stochastic method which can be used to analyze the reliability of power transformers is the Poisson method. Poisson method is a simple method of Markov method. In addition, the reliability of the transformer can also be found by calculating the Forced Outage Rate of transformer. If the reliability of the device can be also known, then the PT. PLN P3B Jawa - Bali can maintain its quality as the largest supplier of electric energy in Java - Bali.

Keywords: Sweep Frequency Response Analysis, Predictive Maintenance, Poisson Method, and Forced Outage Rate
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