LOAD FLOW ANALYSIS USING PROBABILISTIC METHOD IN JAVA-BALI 500 KV INTERCONNECTION SYSTEM

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ABSTRACT

To maintain the continuity of service to customers, a good network system planning in order to distribute electrical power maximally is needed. The purpose of load flow studies are to analyze the voltage magnitude and phase angle at each bus in the network and the value of the active power and reactive power that flowing on each line in the system. The result of the power flow computation is generally a power flow solution at a specific time. On the real condition, the load is not always constant, the load is depending on demands.

The purpose of probabilistic load flow method that used in this final project is to describe these condition. The results of probabilistic load flow show the statistical parameters of the load such as the mean and standard deviation. Probabilistic load flow method is the development of conventional load flow calculation methods that exist before. This method is simulated by using Matlab software that uses the Java-Bali 500 kV interconnection system as a model to get the statistics parameter of the load in the system.

Keywords: Reliability, Load Flow Analysis, Probabilistic Method.
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