POWER SYSTEM RESTORATION OF CASCADING COLLAPSE USING MONTE CARLO SIMULATION

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ABSTRACT

Cascading collapse basically caused large blackouts through a power system. Thus, in this thesis, power system restoration has been developed by using Monte Carlo simulation in order to connect back the line that cause by cascading failure. The test system has been experimented on IEEE 24-bus RTS. Basically, the selection of line restoration was select by using Monte Carlo simulation which is select randomly. The selection of the best connection of line restoration is based on the lowest power losses in order to get an actual power as maximum as possible.

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