Abstract Submission Form

SIMULATION OF ALFC FOR SAPS WITH INTEGRAL CONTROLLER USING MODELICA

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ABSTRACT:

Automatic load frequency control (ALFC) plays significant role in modern electrical power systems to minimize the frequency deviation. ALFC is used to maintain the scheduled system frequency within specified limit. The frequency of the power system is varied by the variation of load. The aim of the model is to reduce the frequency deviation under varying load demand. Without using controller in an electrical power system there will be the steady state error in frequency deviation during load change. In order to reduce the frequency deviation a reset action is to be done by introducing integral controller and it ensures the better dynamic performance of the power system. The result obtained from the simulation justifies the error in frequency derivation during varying load demand is reduced and dynamic performance of the power system is enhanced with the help of Integral controller.