

Title: Modelling and Simulation of Illini 42 bus system using OpenModelica and OpenIPSL

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Abstract: The power system model consists of 14 generators, 42 buses, 55 loads, 65 lines, 11 transformers, 7 shunt capacitors. The submitted model implemented in OpenModelica language using OpenIPSL package. Model represents presents simulation scenario of fault at one of buses and cases of line trip due to fault at separate lines at different intervals of time. Simulation obtained shows voltage profiles at various buses for different cases.