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AUTOMATICS IMPACT OF THE NUCLEAR POWER PLANT GENERATING UNITS ON FREQUENCY STABILITY IN CASE OF IPS OF UKRAINE SEPARATION IN TWO ISOLATED ISLANDS

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Abstract

The frequency change has been considered in the event of the parallel and isolated operation of the interconnected power system (IPS) of Ukraine. The frequency automatics operation of the nuclear power plant generators is analyzed in case of the emergency. The methodology has been proposed for the different operation conditions considering IPS of Ukraine separation into two islands at “Zakhid-Vinnytsa” interface. The simulation results considering frequency load shedding and frequency automatics of the power units are shown for such disturbance. References 3, figures 4.

Key words: frequency, emergency, frequency automatics of the generating unit, nuclear power plant, isolated operation, frequency stability, island.

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