

Esipovich A. H., Smirnov A. N.

Analysis of results of UPS of Russia operating conditions monitoring obtained from WAMS in various scheme configurations and operating modes.

Results of analysis of data obtained from WAMS during various contingencies in the UPS of Russia are presented. Analysis of IPS/UPS operating conditions (such as frequency, electric power, voltage and relative angle) behavior included estimation of efficiency of application of this parameters for dispatch, steady-state and emergency control. Also combination and amount of initial data, required to identify dynamic characteristics of a power system, was estimated.

Key words: operating conditions monitoring, WAMS, contingency, power system dynamics.

Esipovich Arkady Haimovich, PhD. tech., Docent, Head of the Laboratory of Physical Modeling of Electric Power Systems of the Scientific and Technical Center of Unified Power System (STC UPS).

E-mail: esipovich_a@ntcees.ru

Smirnov Andrey Nikolaevich, Head of Laboratory Research of Electric Power Systems of the Scientific and Technical Center of Unified Power System (STC UPS).

E-mail: smirnov_a@ntcees.ru