

Koshcheev L. A., Kutuzova N. B., Shtefka J.

On the insulated power system random frequency variations consideration.

The characteristics of the transient process changing due to emergency power shortage occurrence under the random frequency variations accounting is demonstrated. The insulated power system frequency response detection is proposed.

Key-words: insulated power system, frequency response, load and frequency random variations, emergency power shortage.

Koshcheev Lev Ananyevich, Dr. Sc., Professor, Deputy General Director – Scientific Director of the Scientific and Technical Center of Unified Power System (STC UPS).

E-mail: ntc@ntcees.ru

Kutuzova Natalia Borisovna, Researcher of Department Design and Development of Energy Systems of the Scientific and Technical Center of Unified Power System (STC UPS).

E-mail: kutuzova@ntcees.ru

Shtefka Joseph, PhD. tech., Senior Researcher of Department Electric Power Systems of the Scientific and Technical Center of Unified Power System (STC UPS).

E-mail: stefka_j@ntcees.ru