

## **Testing algorithms for determining dynamic phasor measurements of currents and voltages according to data from an electrodynamic model.**

*Berdin A. S., Dmitriev S. A., Dmitrieva A. A., Kabanov D. A., Senyuk M. D.*

The results of testing dynamic phasor measurements accelerated evaluation method of the electrical regime on the data obtained from the electrodynamic model of JSC «STC UPS» are presented. The tests were carried out on an electrodynamic model of a power system containing four synchronous generators, three of which simulates turbo generators and one – a hydro generator. As a result of testing, the requirements for the measuring system and the parameters of accelerated algorithms for estimating the parameters of the electric mode were determined. The developed algorithms can be used in development emergency control systems according to the «After» method and diagnosing the technical condition of power system equipment.

*Key words: electrical regime parameters, dynamic phasor measurements, electrodynamic model of a power system, digital signal processing, emergency control systems according to the «After» method.*