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Test results of active and reactive power plant controller using the JSC «STC UPS» Digital-analog-physical complex.

Analysis and experimental tests had performed for active and reactive power plant controllers of various hydroelectric power stations. Algorithms, which optimize the active and reactive power distribution over hydro generators with respect to generators characteristics and power plant operating conditions, were debugged and corrected during the tests with supplementary checking. Test program of active and reactive power plant controllers or its prototypes using the JSC «STC UPS» Digital-analog-physical complex in conditions corresponded to operational conditions in power system had developed and proved.

Key words: power system, hydroelectric power station, power plant controller, power system operating state.

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