

Annotation

The structure of Aksu State District Power Station - Power Plant of JSC EEC is considered. The general structure of the station is shown, the basic equipment of 300 and 325 MW power units is described. The analysis of the effectiveness of the modernization of the station by replacing the steam turbines K-300-240 with advanced K-325-23.5 with minimal changes 300 and 325 MW blocks were calculated for each of the compartments, a regeneration system for each of the turbines was calculated, the compartments' capacities were obtained, and the obtained technical and economic indicators of the two options were compared. The issue of chemical water treatment and chemical water treatment at a state district power station is described. An economic calculation of the cost before and after modernization was carried out in relation to one power unit. The issue of life safety in the part of the analysis of the most dangerous factors in the turbine workshop is considered, the expected sound load levels are calculated, the grounding for the transformer is calculated.