

Annotation

In this diploma project, calculations of the modernization of the steam turbine PT-60-90 / 13 in Almaty CHPP-1 are presented.

In the heat engineering section, a modernization of a 180 MW power plant with a generator and a turbine PT-60 / 75-130 / 13 with a heat output of 60 MW is presented, with a corresponding pressure of 13 MPa.

In the section on life safety, calculations of noise in the turbine shop and harm to the human body are presented.

The economic section provides calculations of the project's recoupment.