

### **Annotation**

The main purpose of the diploma project is expansion of TPP-2 of the capital of the Republic of Kazakhstan due to PTU-T-120 / 130-130.

During the project, a description of the planned object and settlement is carried out, calculation of the principal thermal diagram of the turbine, selection and description of the main and auxiliary equipment, layout decisions are characterized. As an individual task, the calculation of the upper network heater is carried out

In the economic part of the project, an assessment of the effectiveness of investment in construction is made, also is identified the main technical and economical indicators.

In the “Life safety” section, analysis of harmful and hazardous production factors and the calculation of the required noise reduction.