

## **ANNOTATION**

In the diploma project, the issues of designing the construction of a CHP plant in the city of Nur-Sultan are considered. The project provides for the installation of new equipment. In the calculation part, the calculation of the load of the necessary equipment has been carried out. Particular attention was paid to the analysis of the structural reliability of equipment.

In the section on life safety the description of the CHP is given, the issues of the analysis of labor contracts in industry, the calculation was made of the supply and exhaust ventilation of the turbine shop.

In the economic part, the calculation of the absolute economic efficiency of the capital investment is carried out and the payback period of the project is determined.