

**Abstract**

In this thesis project examined the organization of a multi-user network in the district Akkent Almaty. The analysis of the existing telecommunications network and to provide multi-user access services. In the calculation of the payment made and the calculation of the load capacity of the channel.

As well as life safety section analyzed the working conditions of operators made the calculation of lighting, air-conditioning. In the economic part of the calculated absolute economic efficiency and payback period is defined.