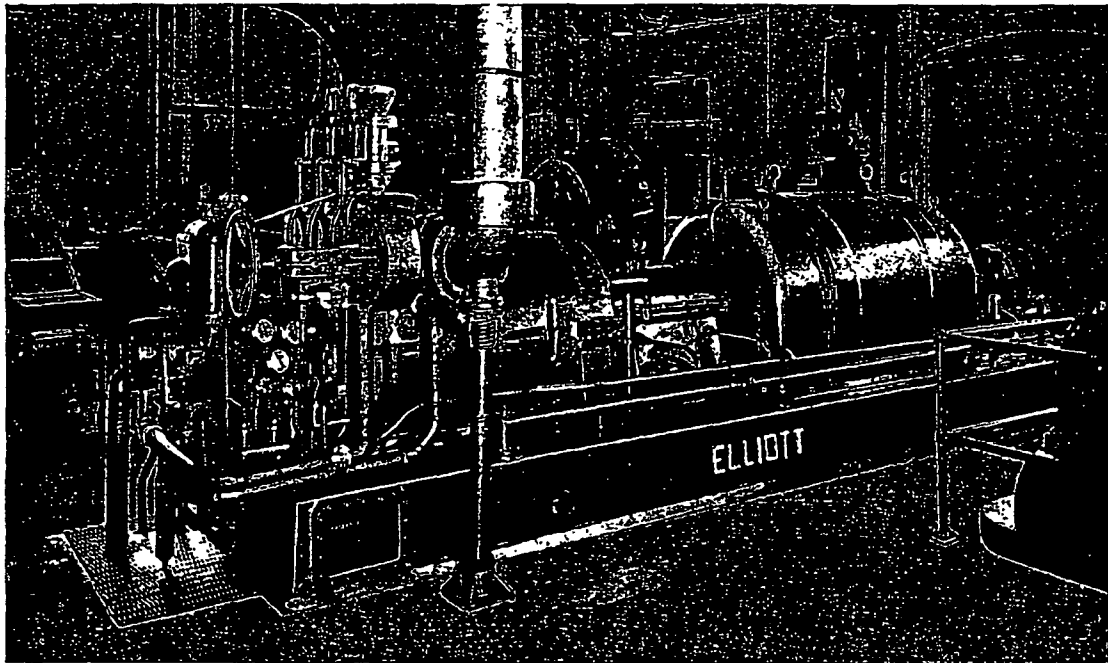




The Elliott 1500-kw. non-condensing turbine-generator installation which is an important part of the new power and process steam set-up described in the article beginning on this page. The turbine is equipped for non-automatic extraction of steam from two intermediate stages, at 80 lbs. and 40 lbs. pressure, respectively. It exhausts to process at 25 lbs. gauge.

Electric Power and Process Steam

THE STORY BACK OF THE POWER AND HEAT SUPPLY
OF AN INDUSTRIAL PLANT

THE PRODUCT manufactured in the plant described requires the use of considerable steam in processes. In 1928, expansion of production facilities and development of new products, using steam, increased the demand for process steam beyond the capacity of the steam plant then in use. Up to that time, all electric power was purchased, and process steam requirements were obtained

EDITOR'S NOTE: The plant which is the subject of the following article is in the Pittsburgh district. The description of the plant was written by the Chief Engineer, but due to company policy, neither his name nor the name of the company may be mentioned. But permission has been granted to publish the interesting story of their new and revamped power program.

from two 350-hp. boilers which had been in operation for 19 years and were in poor condition. The settings were such that the furnace height did not permit operating them at high ratings. The increased demand for steam and the failure of the existing steam plant to meet it, forced a study of the problem of increasing the capacity of the plant.

An analysis of steam and elec-