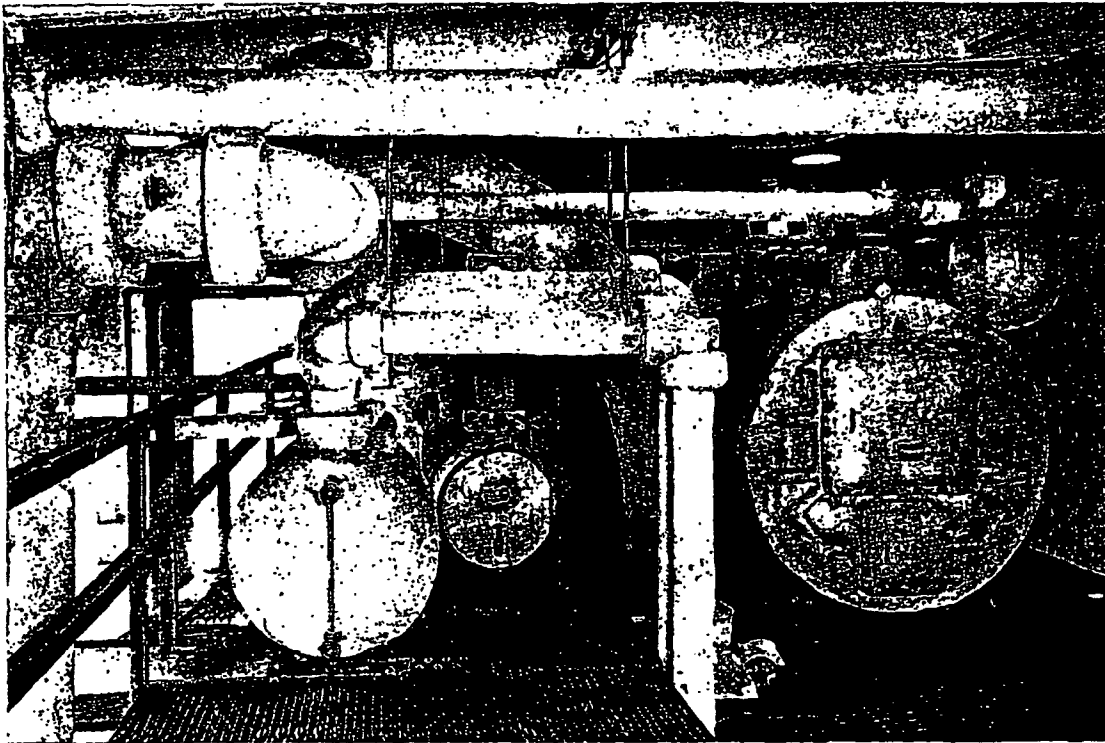




*The Elliott flash type deaerator (at right) with flash tank and closed heater, in the plant of the Ontario Paper Company, Thorold, Ontario.*

## IN THE ELECTRIC BOILER PLANT OF THE ONTARIO PAPER COMPANY

**T**HE Ontario Paper Company at Thorold, Ontario, was originally built in 1912 by the owners of the Chicago Tribune. The Tribune takes all the paper made by the Ontario Paper Company, and although it is a large mill, it cannot keep up with the demand. In only one year was the output sufficient to meet the needs of the presses of the Chicago Tribune; in some years the mill was able to supply only 66% of the paper required. Five paper machines are installed.

In a recent modernization pro-

gram, a new steam plant was constructed, which included the innovation of three electric steam generators, each rated at 30,000 kw. and capable of generating approximately 100,000 lbs. of steam per hour. A major portion of the steam generated is delivered directly to five back-pressure turbines located adjacent to the paper machines. Four of these are Elliott geared turbines which have been in constant 24-hour-a-day service for from 10 to 16 years. Exhaust from the turbines goes directly to the paper dryers at 5 to

15 lbs. pressure. A large quantity of steam is also used for cooking sulphite pulp and for general heating purposes.

With the installation of the electric boilers, steam pressure was raised from 140 lbs. to 200 lbs. and the paper machine turbines were renozzled for the higher pressure.

In connection with the new power plant program, an Elliott flash type deaerator of 300,000 lbs. per hour capacity was installed. The ability of the flash type deaerator to perform satisfactorily on what