

the turbine-generator unit and the turbines driving the stoker fans and pumps. During this period it is necessary to take a small amount of live steam from the boilers. A steam pressure - reducing valve, which operates automatically from the pressure in the exhaust header, supplies the required amount of live steam to the exhaust header.

During the summer months, however, the motor-operated fans and pumps are used as much as possible so that a minimum amount of exhaust steam is wasted to atmosphere. No live steam is used for low-pressure requirements in the summertime, and it is very unusual for any steam to be going out the exhaust head. Live steam, however, is always used for cooking.

For emergency service the local power company has a connection to the sanatorium power lines, for which is charged a stand-by cost plus the cost of any power which is used. Since the installation of the turbine-generator unit, the sanatorium has not found it necessary to use any purchased power.

The exhaust steam requirements and power requirements are so well balanced that the plant has been able to show a savings in cost of operation of \$11,000 to \$12,000 per year. The maintenance cost of the unit has been nil since its installation.

The power plant is operated with the same number of men as was used before the extensions were made, requiring no increase in operating costs.

The installation of additional equipment with motor drives is anticipated; and, due to constantly increasing demands for power and light, the sanatorium will in all probability replace the engine-generator unit with a more economical turbine-generator unit in the near future.

ELECTRICAL EQUIPMENT FOR FOUR NEW SUBMARINES

For many years, the U. S. Navy has considered the Ridgway Works of Elliott Company to be among the outstanding builders of propulsion drive electrical equipment for submarines. This was recently reaffirmed when the Elliott Company was awarded the various generators, motors and auxiliary generators to be used in Submarines Numbers 172 to 175 inclusive.

MEXICAN REPRESENTATIVE APPOINTED

Mr. Miles V. Stewart, Apartado Postal No. 693, Mexico D. F., Mexico, has been appointed Sales Representative for Elliott Company and Associated Companies. Mr. Stewart is well qualified to do a good job of handling Elliott equipment in Mexico. He is experienced in the application of power plant equipment and is well acquainted in Mexico.

LETTERS

FLOOD

Gentlemen:

I have been receiving POWERFAX for a number of years and have appreciated the courtesy very much. I have consistently filed away each number after carefully reading it, and have always considered the splendid articles, data, tables, and curves covering the different articles manufactured by the Elliott Company of the greatest value in my work as Chief Engineer.

Last July, our city experienced a very bad flood and the copies of POWERFAX I had filed away were ruined in the high water. Last week I tried to find curves published in one of the issues covering the steam rates of different type engines. . . . I felt impelled to ask you if you could possibly supply me with back numbers from the time that I first received your valued publication. I would be glad to remit the cost of same.

Hugh R. Ellis,
Colorado Milling & Elevator Co.,
Denver, Colorado.

To reader Ellis was sent a file of POWERFAX for the past five years—of course, no charge.—Ed.

TURBINE ARTICLE

Gentlemen:

I recall one or two articles in some recent issues of your valued magazine POWERFAX dealing with calculations for the performance of bleeder turbines. I feel positive that I filed same and yet am unable to locate them in spite of a diligent search. I would appreciate indeed, if you would be kind enough to let me have a duplicate copy of those issues of POWERFAX.

B. F. Koch,
Anaconda Wire & Cable Co.,
Hastings-On-Hudson, New York

The article referred to was published in the December, 1927 issue of POWERFAX entitled—"The Economy of the Bleeder Turbine".—Ed.

POWER AND PROCESS

Gentlemen:

Could you supply a copy of POWERFAX, summer of 1933 issue? This issue carries an interesting description of the operation of the power plant of the Jacob E. Decker & Sons of Mason City, Iowa. If you have any other issue carrying descriptions of the operation of smaller plants by turbines where the steam is used for process purposes, such as would be adaptable to canning plants, we would be pleased to have you forward those issues as well.

Oliver Stevenson, Vice President,
Otoe Food Products Company,
Nebraska City, Nebraska.

Mr. Stevenson was sent not only the Summer 1933 POWERFAX, but various other issues containing articles on the use of power and process steam.—Ed.

PASS IT ON

"After reading POWERFAX, we pass it on to our engineers who eagerly await its coming. We all like it very much."

Samuel Gearhart,
Wabash Portland Cement Co.,
Stroh, Indiana.



Linoleum block New Year's greeting card folder received by POWERFAX from Chief Engineer Rudolf Trimmel, Vienna, Austria. Done in two colors.