

DE LAVAL TURBINE GENERATORS

provide more power for Guam



De Laval furnished the Navy Department, Bureau of Yards and Docks, two 11,500 kw De Laval Turbine Generators to supplement power requirements for the island of Guam, headquarters for ship repairs and defense activities in the Pacific. These AIEE-ASME Standard Units operate at 600 psi, 825F. They have been on the job more than a year. Service record? Excellent. More than a half century of experience lies behind modern De Laval Turbine Generators. In fact, the first

unit of this type ever installed in America—in 1893—had a De Laval nameplate. De Laval engineers are at hands at making turbines that are high on performance, low on maintenance.

You benefit by De Laval's quality design standards in a wide range of other power plant products—boiler feed pumps, IMO fuel oil pumps, circulating water pumps and condensate pumps. Consult your De Laval Engineer on your specific applications.



DE LAVAL Turbine Generator

DE LAVAL STEAM TURBINE COMPANY
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with Power readers...

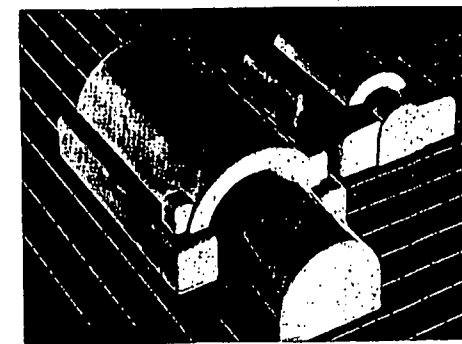
Can You Help? ...
A few years ago Power published two articles called "Fluid Highways."
I am very much interested in these and would like to obtain these two publications. Would you be kind enough to advise me as to how this can be accomplished?
Sault Ste Marie, Ont. C. A. EDWARDS

The items requested by Reader Edwards (no relation to our George Edwards, by the way) originally appeared in Dec and Mid-Dec 1937. Our stock of reprints has been completely exhausted for many years. Perhaps you have a spare copy, or one you no longer need.
If you do have one, and want to help fellow-reader Edwards, send it to him c/o Algoma Steel Corp., Ltd., Sault Ste Marie, Ontario, Canada.

Incidentally, you can get a listing of Power special sections and reports that are available by just dropping us a card.

NOTE ON H-T HOT WATER ...
I have studied with interest the article on high-temperature water in your Jan issue (pp. 96-98) and while, in some respects, the methods advocated are in keeping with
(Continued on page 216)

...lines and bylines



Standard hydrogen-cooled generator, much smaller "supercharged" twin

PROOF OF THE PUDDING would be a good title for this picture, we think. Here's why: Back in Nov 1951 (pp 162, 164) Power reported a big step forward in the art of hydrogen cooling. Called "supercharging," this idea involves forcing hydrogen at high velocities through the generator conductors, where the heat originates. It promises drastic reduction in physical size of generators, making it possible to visualize much greater capacities in a single unit than ever before.

One fulfillment of the promise can be seen in the scale models photographed above. By this dramatic comparison, Allis-Chalmers engineers show what happens to the size of a standard hydrogen-cooled generator when supercharged cooling is applied to both rotor and stator. And, we might add, a new excitation system cuts down the size of the exciter as well.

We like this picture because it demonstrates an important thing about technical magazines in general and our favorite magazine in particular. A big, and exciting, part of our job is running down the significant new developments in the power field and keeping you continuously informed of them. And this photo reveals, far better than words, how such developments pay off.

CHASING BTU's isn't much like chasing a tennis ball, but Howard McCall manages to do well at both. A ranking tennis player, he's also a top-drawer specialist in heating, ventilating and drying. First with Sturtevant Division of Westinghouse, and now as industrial engineer with J. O. Ross Engrg. Corp., Howard has piled up a lot of know-how in the art of making each Btu deliver full value. He passes along some of this savvy on pp. 84-85.

Twin interests in sports and engineering got off to a flying start at Georgia Tech, but were interrupted by a stint as an ensign in the U.S. Navy. Back in civics, Howard resumed competitive tennis, secured his professional engineer license, became a member of ASHVE and the Georgia Engrg. Society. Now married, he admits to some new interests—gardening and being proud father to three youngsters.



Howard McCall

ABS OUT