

BEHIND THE IRON CURTAIN



what goes on—beyond this barrier?

Not always what theory teaches us. More than modern instrumentation can tell us. Much, indeed, that only off-the-line inspection will reveal—too late, perhaps, for corrective action.

Yet here-and-now facts on the condition of internal boiler surfaces are always yours when APEXIOR NUMBER 1 guards tube and drum steel.

For APEXIOR permanently stabilizes metal beneath a surface which moisture cannot penetrate. Thus isolated from any environment with which it can react to its own detriment, APEXIORized steel loses none of the characteristics of new or newly cleaned metal—can be

depended upon for changeless year-in, year-out service.

A further benefit is that APEXIOR's smooth surface attracts fewer and less tenacious deposits so that tubes and drums stay cleaner longer for uniform heat distribution, better circulation and constant high heat transfer efficiency.

These are some of the reasons why for 31 years APEXIOR has played so important a role in the power plants of American industry—why today engineers in ever-increasing numbers specify it for boilers of all pressures and ratings, operating under all conditions of foodwater control.

For a complete picture of what APEXIOR protective surfacing can mean to your boiler, write us for more facts about

**DAMPNEY Maintenance
for Metal**

THE DAMPNEY COMPANY of AMERICA • Hyde Park, Boston 36, Mass.

tion is with 40% high level, allowing 30% of tank to be withdrawn.

5. Max pump starts per hour is demand one half of pump capacity, that is, 250 gpm. Ten-min cycle (6 starts) means 5-min withdrawal at 250 gpm, total withdrawal of 1250 gal. 1250 gal is 30% of 4166 gal.

Answer: Use 4000 to 4200 gal tank. Pressure settings: start psi, 35; stop psi, 60. Set high level at 40% total tank capacity.

Dr. Alexander C. Christie, professor of mechanical engineering at Johns Hopkins University for the past 34 years, has been retired at the age limit. He will remain in Baltimore and devote more time to his consulting practice in the power-plant and industrial fields in this country and abroad. Recently, he was awarded the Lamson Gold Medal by American Society of Engineering Education for achievement in engineering teaching.

Allis-Chalmers has increased prices on electric motors, generators, motor-generator sets and electrical controls. This increase became effective July 6. An increase of 5% has been made in prices on certain electrical rotating apparatus, while price increase on controls is 10%. These changes follow a 5% increase on Allis-Chalmers transformers, unit substations, feeders, age regulators and switchgear, which came effective June 22.

Construction has been started on a new building to house the metallurgical, physical and chemical laboratories of Edward Valves, Inc., East Chicago, Ind., a subsidiary of Rockwell Mfg. Co. The facilities will be used for research and development work of Edward and Nordstrom steel valves.

Foxboro Co., Foxboro, Mass., has conducted training courses in theory, application, operation and maintenance of industrial instruments since 1935. This year five courses, each of two weeks' duration, have been arranged for July, August, October, November and December. Courses will also be arranged for companies who send a representative sufficiently large to warrant a special application. Also, special courses will be arranged for specific industry groups. Similar facilities are offered by Foxboro Co. in Montreal, for benefit of Canadian industry. Enrollment is by application, which are available through all local offices or from home office of the company at Foxboro, Mass. Address direct to training courses.

Dr. Max Jakob, research professor of mechanical engineering at Illinois Institute of Technology and one of the foremost authorities on heat transfer, has been made an honorary doctor of engineering by Purdue University.

Kaye & MacDonald, Inc., West N. J., announces that it has purchased Julian D'Este Div. of American Cable Co.

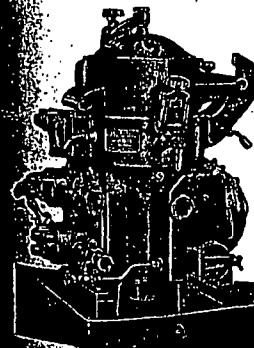


"I am De Laval Centrifugal Force. I keep lube oil—either turbine lube or Diesel lube—both clean and dry.

"Being able to remove both contaminants of lube oil at one time gives me an advantage. It means that when I am on the job of protecting a power unit, the engineer never has any worries about dirt or condensate. Whether I am called on to remove a few drops of moisture or quickly to remove a dangerous "slug" of water, I can do it. De Laval machines, properly selected for capacity in the first place, have ample reserve capacity to take care of an emergency.

"When I purify Diesel fuel oil, I enable the operator to get maximum efficiency usefulness from his fuel oil.

"I'm written up in Bulletin 400 (Turbine Oil) and Bulletin DL-1 (Diesel Oil). Either will be sent on request."



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