



THE modern design JERGUSON TRUSCALE GAGE gives new accuracy for reading of liquid levels in boilers, deaerating tanks, etc.

Here is the remote reading gage which incorporates all of the newest engineering features! The Jerguson Truscale has exceptional sensitivity, with ability to register changes as small as $\frac{1}{2}$ of 1% of range! The translucent dial scale is clearly lighted from behind, and is easy to read.

Available with positive alarm system. Lights and horn signal too high or too low water level.



Available with Repeaters which repeat accurate level readings at auxiliary locations.

Marine Operators: Special installation procedure compensates for roll and pitch of your ship.

Write for Truscale Catalog

JERGUSON
Gages and Valves for the Observation of Liquids and Levels
JERGUSON GAGE & VALVE COMPANY
100 Fellsway, Somerville 45, Mass.
Offices in Major Cities
Battery Motors & Controls, Ltd., London, Eng.
Controls Battery, Paris, France

More POWER NEWS

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visualized a few years ago," Sporn stated. "Efficiencies of conversion of the heat in fuel into electric energy of the order of 50% are distinct possibilities."

Since crossing the barrier of critical pressures requires new concepts of turbine design, the new Philo plant unit will be a developmental model and will be relatively small as modern generating units go. The 120,000-kw capacity will increase net generating capacity of Philo plant—one of Ohio's largest—to 495,000 kw. The new plant will replace a 40,000-kw unit built in 1923.

The ACE president stated that this new advance will be made available to the entire electric power industry. He promised that, "in conformity with tradition, a more detailed and technical initial description of the development will appear in the industry press within the next few weeks. When the project is completed, it will be described in still greater detail."

Coming Events

Oct 15-17—Second Diesel Operators Conference, University of Nebraska, Lincoln, Neb.

Oct 19-21—Engineers Society of Western Pennsylvania, 14th Annual Water Conference, Hotel William Penn, Pittsburgh, Pa.

Oct 19-23—American Welding Society, National Fall Technical Meeting and Annual Meeting, Hotel Cleveland, Cleveland, Ohio.

Nov 4-6—Industrial Management Society, Third Annual Improvement Contest in conjunction with 17th National Time and Motion Study Management Clinic, Sheraton Hotel, Chicago, Ill.

Sept 14-24, 1954—First International Instrument Congress and Exposition, Commercial Museum and Convention Hall, Philadelphia, Pa.

Atomic Fuel Successfully Bred

BREEDING OF ATOMIC FUEL, long predicted by scientists, is now an accomplished fact, according to the Atomic Energy Commission. Gordon Dean, retiring chairman of AEC, announced this historic accomplishment on June 4th at the Edison Electric Institute meeting in Atlantic City. The reactor testing station at Arco, Idaho, that produced the first useful atomic power in December 1951, has been able to generate more than a pound of plutonium for every pound of uranium 235 burned, he said. Work was under the direction of Drs W Zinn, Lichtenberger and colleagues.

More POWER NEWS on page 220

How

automatic controls and

heating and air conditioning equipment

work together for best results

Now you can get a practical view of working and application of just these automatic controls used in the heating, ventilation, and air conditioning field.



The unique requirements of heating and cooling systems... The special features you can get for... The method combines these automatic control systems... all these important aspects of control are covered in this book. Whether your business is in the development of controls or the performance of the equipment they control, you will find helpful essential information here.

Just Published!

AUTOMATIC CONTROL OF HEATING and AIR CONDITIONING

By JOHN E. HAINES

Vice-President

Minneapolis-Honeywell Regulator Company
384 pages, 4 x 9, 200 illustrations, \$4.50

This is a practical book by a man with four years' experience in the controls field, a simple, direct manner—with practical work examples rather than mathematical formulae—he passes his experience on to you. He shows you plainly the elements and devices, controls and applications of heating and air conditioning control systems.

The author keeps always in mind these two basics: the need to design, select, or use controls with an eye to the characteristics of the equipment you're controlling; and the importance of understanding the means and methods of automatic control from the beginning when you design, select, or plan to use equipment that will need it.

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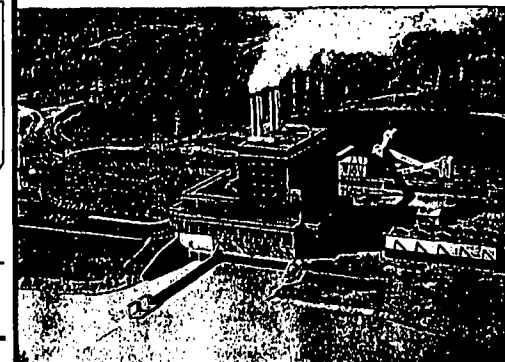
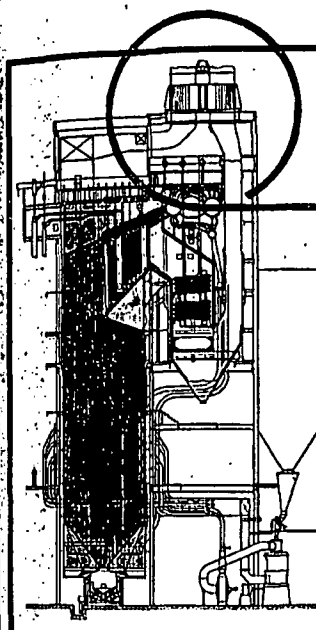
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All Reheat Boilers at New Lee Station of the Duke Power Company

equipped with

LJUNGSTROM AIR PREHEATERS



By mid-summer last year, both units of the first section of the Duke Power Company's new Lee Station had gone into service. Designed and built by Duke Power's own organization, Lee Station's 190,000 kilowatts help fill the growing power needs of industrialized South Carolina.

Each of the station's two 90,000/100,000-kw turbine-generators is powered by a boiler designed and built by Combustion Engineering-Superheater, Inc. These C-E Steam Generating Units are fired by pulverized coal, and furnish

steam at a throttle pressure of 1250 psi and 950 F, reheated to 950 F.

Two Ljungstrom Air Preheaters are used with each boiler. These Ljungstroms preheat combustion air to 620 F and cool exit gases to 310 F.

Lee Station is another example of the unanimity with which the Ljungstrom Air Preheater is accepted as a standard unit for high-efficiency steam generators. Since the war, Ljungstrom Air Preheaters have been specified for an hourly capacity of over 285,000,000 pounds of steam.

THE Air Preheater Corporation

60 East 42nd St., New York 17, N. Y.