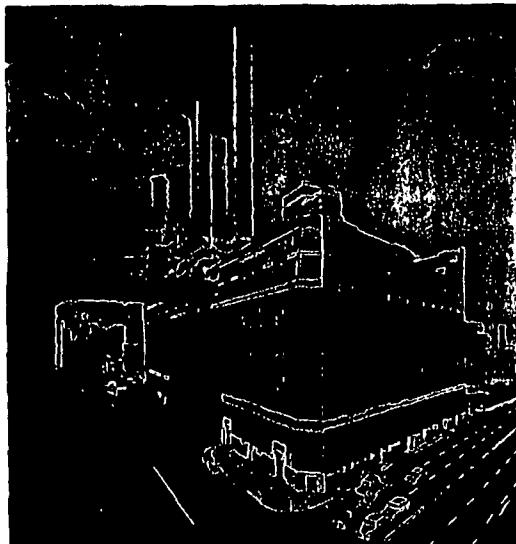




CON EDISON'S EAST RIVER ELECTRIC GENERATING STATION at 14th Street, New York City, will contain the new Worthington 125,000 sq-ft condenser. The shell, which is to be installed under 160,000-kw Unit No. 7, will contain nearly 105 miles of 14" O.D. aluminum brass tubes and will require 125,000 gpm of East River water supplied by two 54 in. Worthington "Miffo" vertical single suction volute circulating pumps.

Con Edison once again installs "largest" condenser

On several occasions over the past fifty years, Worthington has been selected to build the "world's largest" surface condensers in single-shell design.

In 1919, a 70,000 sq-ft condenser was installed under a 35,000-kw turbine-generator for a prominent utility company. This was the largest single shell surface condenser of its day.

In 1931, Brooklyn Edison Company (now Consolidated Edison Company

of New York, Inc.) installed, under 160,000-kw Unit No. 7 at the Hudson Avenue Station, the "world's largest" at that time, a 101,000 sq-ft single-pass Worthington condenser. This was followed, in 1949, by two 74,500 sq-ft condensers for Waterside Station No. 1.

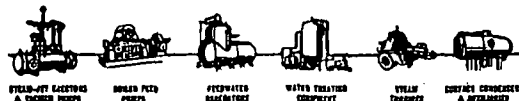
Now, Worthington is again building for Con Edison the "world's largest" single-shell condenser ever ordered, 125,000 sq-ft, single-pass, for the

160,000-kw Unit No. 7 addition to East River Station.

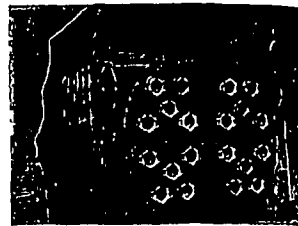
Worthington, with over a century of experience in the manufacture of steam power equipment, is prepared to build efficient condensers in all sizes. Let us advise you, without obligation, on your new installation.

Write, stating requirements, to Worthington Corporation, Steam Power Division, Harrison, New Jersey.

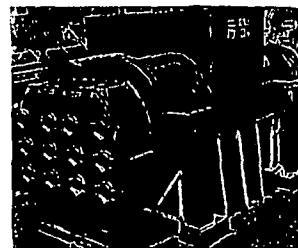
L.13



World's Broadest Line of Steam Power Plant Auxiliaries



WORTHINGTON CONDENSER installed in 1931 to serve 160,000-kw Unit No. 7, Hudson Avenue Station. Tube sheets were drilled for 110,000 sq ft with 101,000 sq ft installed.



ONE OF TWO 74,500 sq-ft 2-PASS WORTHINGTON CONDENSERS serving 60,000-kw Units 14 and 15 at Waterside Station No. 1.

Power

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POWER (with which are consolidated *Science and Industry*, *The Engineer Review*, *The Engineer*, *The Railway Engineer* and *Operating Engineer*) is published monthly with an additional directory number in OFFICE BUILDING, 310 W 42nd St, New York 36, N. Y. Founders: PUBLICATION EXECUTIVE EDITORIAL AND ADVERTISING OFFICES: 310 W 42nd St, New York 36, N. Y. President and Treasurer: John J. Cools, Secretary: Paul Montgomery, Senior Vice-President, Publications: Ralph E. Smith, Vice-President and Editorial Director: Nelson Bond, Vice-President and Director of Advertising: J. E. Blumhagen, Vice-President and Director of Circulation. SUBSCRIPTIONS: Address correspondence to POWER, Subscription Service, 310 W 42nd St, New York 36, N. Y. Allow one month for change of address. Subscriptions are solicited only from executives, engineers, plant service men, interested in design, operation and maintenance of power, light, heat and other must be indicated on subscription orders. Single copies: U. S. and possessions, Canada 50¢; all other \$1.50. Subscription rates—U. S. and U. S. possessions: \$4.00 for one year, \$6.00 for two years, \$8.00 for three years, Canada: \$6.00 for one year, \$10.00 for two years, \$12.00 for three years. All other countries: \$15.00 for one year, \$25.00 for two years, \$35.00 for three years. Entered as second-class matter January 26, 1949 at New York, N. Y. under Act of March 3, 1879. Printed in U. S. A. Copyright 1953 by McGraw-Hill Publishing Company, Inc. POWER articles are indexed in both the *Industrial Arts Index* and the *Engineering Index*. POWER publishes its own annual index, which is available for \$50 from the editorial office.



TURBINE MAINTENANCE—carried out regularly and with skillful care—keeps these inherently reliable units ringing up ever better availability records. Our cover picture, taken in De Laval's Trenton shops, stands for the many inspections involved—from the builder's painstaking checks aimed at delivering a perfect unit to the periodic checks you make in your plant to keep the machine running sweetly.

For a good picture of what your inspection and maintenance program should include turn to p 108. There Harry Neary passes along a haul of practical pointers gained in some 30 years of experience in building, designing and servicing turbines.

Next month...

■ Ever since the idea of mixing two synthetic resins in a single bed came along, engineers have been wondering what's the best allround answer for demineralizing—2-step setup or mixed-bed layout? A May article gives results of careful, extensive tests, sets up some good guideposts of fact to steer your thinking on this question.

■ Remember Don Swift's shorts on trouble-shooting? Next month we launch a new Swift series, this time on getting a new plant built and operating.

■ For some ten years now, a number of U.S. firms have been quietly working on the free-piston power plant, but most of the news has been made by European builders unhampered by security restrictions.

POWER editors, long familiar with what's going on here, have itched to bring the story to you. In April we plan to do it—a roundup of American developments to date and some prognostications for the future.

■ "Knots" sounds like Boy Scout stuff to most of us, but they're mighty important to good, safe rigging. For practical know-how, see next issue.

... and future months

■ *Compressing Air* is the subject of our next handbook section. Lots of dope on typical compressors, auxiliaries, plant air systems—also on selecting, operating and maintaining equipment.