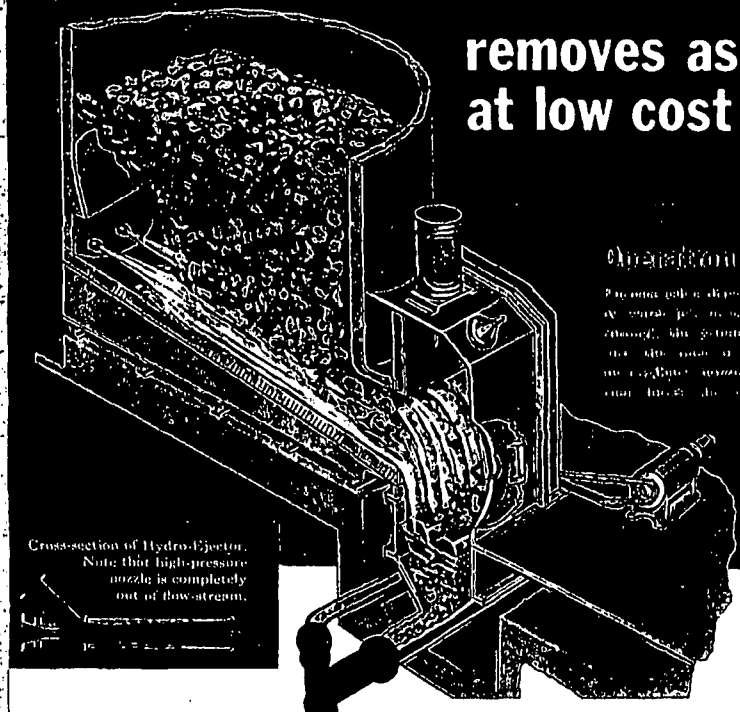
The A-S-H Hydro-Ejector System

removes ashes at low cost



Cross-section of Hydro-Ejector. Note that high-pressure nozzle is completely out of flow-stream.

Typical Hydro-Ejector installation

Low initial investment
Economical operation and maintenance

These are the vital, cost-cutting advantages that the A-S-H Hydro-Ejector System offers you because of its simple, clean design and the use of special wear-resistant alloys throughout. If your operating conditions permit its application, you can slash your ash-disposal budget right from the start. A list of plants where Hydro-Ejector Systems are now operating will be gladly sent on request .... Regardless of the size of your plant, there's an A-S-H jetting, pumping, or pneumatic system to help you save your disposal dollars. Let our engineers tell you how.

THE ALLEN-SHERMAN-HOFF CO.
259 E. Lancaster Ave., Wynnewood, Pa.
Service and Representatives in Principal Cities

ASH

HYDROJET (hydraulic) HYDROVAC (pneumatic)

materials handling systems

Power

AUGUST 1953 • VOLUME 97 NUMBER 8

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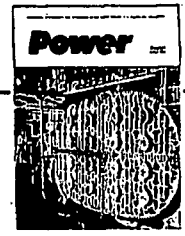
AUGUST 1953 POWER Vol. 97—No. 8

Power (with which are consolidated *Science and Industry, The Engineer Review, The Engineer, The Stationary Engineer and Operating Engineer*) is published monthly with an additional Handbook statistical number in September, by McGraw-Hill Publishing Company, Inc. James H McGraw (1860-1948), Founder. Curtis W McGraw, President; Willard Chevalier, Executive Vice-President; Joseph A Gerardi, Vice-President and Treasurer; John J Cooke, Secretary; Paul Montgomery, Senior Vice-President, Publications; Ralph B Smith, Vice-President and Editorial Director; Nelson Bond, Vice-President and Director of Advertising; J E Blackburn, Vice-President and Director of Circulation.

SUBSCRIPTIONS: Address correspondence to Power, Subscription Service, 330 W 42nd St, New York 36, N. Y. Allow one month for change of address. Subscriptions are solicited only from executives, engineers and supervisory personnel engaged in design, operation and maintenance of power, light, heat and other process services in utilities, construction firms, industrial and service plants. Position and company connection must be indicated on subscription orders.

Single copies: U. S. and possessions, Canada 50¢ (except mid-September Handbook $1.00); all other countries $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: $10.00 for one year, $22.00 for two years, $30.00 for three years. Re-entered as second-class matter July 7, 1933 at the post office at New York, N. Y. under Act of March 3, 1879. Printed in U. S. A. Copyright 1953 by McGraw-Hill Publishing Company, Inc. All rights reserved.

Power's 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 offices.



CONDENSERS must be kept in top shape or station output and efficiency suffer. Short of opening the unit, you can't see what goes on inside the shell. But, like a skillful doctor, you can diagnose conditions by interpreting external symptoms. In doing so, you'll find the nomograms and methods described on pp 78-81 useful timesavers.

Condenser pictured on our cover is a 100,000-sq-ft Allis-Chalmers unit in Commonwealth Edison Co's Ridgeland Station (POWER, April 1951, pp 84-87). It contains 14,550 30-ft tubes in single-pass divided-waterbox layout. At left of photo you see one of two vertical mixed-flow circulating pumps, each driven by a 700-hp motor. These units supply 155,000 gpm of cooling water. With 60 F water, condenser operates at approximately one inch Hg.

Next month...

- Are you just a bit rusty on this business of "critical" pressure? We were, and so we did something about it. The result: a September article on the fundamentals. Just what you need to prime you for coming big discussions on new super-pressure boilers.
- Figuring stresses for high-temperature piping can be pretty tough but models make the job a lot easier. An upcoming story shows how models are used, what the method can do for you.
- Want to do a better job of maintenance welding? Read Russ Kembel's September article on setting up a welding shop, using it to good advantage.
- Coal handling, when it isn't done right, can be a mighty messy and expensive business. But mechanize the job fully, to make coal "flow," and you take all the grief out of it. For ideas on how to do it, see next month's industrial-plant case study.

. . . and future months

- When you modernize your plant's electrical system, or start planning a new one, you don't want to miss any bets. And you won't, if you use our 52-pg October special report. It brings you the best thinking of top experts, and it's organized for easy reading and ready reference. Watch for it!