

READER SERVICE SECTION



Giant Blower Has Steam Turbine Drive

This giant blast furnace turbo-blower, built by De Laval for Armco Steel Corp., is driven by a 15,220 hp, 2500 rpm, 16-stage steam turbine. Steam conditions are 400 psi and 750 F. Blower is a 3-stage

unit rated 121,000 cfm at 35 psig discharge pressure. Total weight of turbine and blower is over 167 tons. Shafts of each were made large and heavy to meet expected wide range of speed conditions.

American Power Conference Plans Second Meeting

Second annual meeting of the American Power Conference will be held March 25, 26 and 27, 1953 at the Sherman Hotel in Chicago, Ill. This conference, successor to the Midwest Power Conference, enjoys the sponsorship of the Illinois Institute of Technology with nine other cooperating universities throughout the midwest and ten local and national engineering societies. A highlight of last year's conference, which drew 2500 registrants, and a feature of the 1953 meeting will be the annual power show put on by the National Assn of Power Engineers.

Thirty six separate sessions, luncheons and dinners are scheduled for the three-day conference period. High in interest value to the power industry are major symposiums on Industrial Water Problems, under the chairmanship of P. W. Swain, Power editor and involving Power's editorial staff; Industrial Use of Atomic Energy, with L. C. McCabe, chief, fuels and explosives div, Bureau of Mines as chairman; Niagara Power Developments under J. C. Tarbox, professor of electrical engineering at Univ

of Michigan as chairman; Industrial and Institutional Plant Operation with G. R. Carpenter, plant engineer, Minneapolis Moline Co acting as chairman.

Detroit Edison Promises Workable Atomic Power Design

Detroit Edison Co., teamed with Dow Chemical, has been studying atomic power problems as one of five groups selected by the Atomic Energy Commission to carry out this phase of nuclear energy development. The other teams are Monsanto Chemical and Union Electric Co of St. Louis, Commonwealth Edison and Public Service Co of Northern Illinois; Pacific Gas and Electric Co and Bechtel Corp; Pioneer Service & Engineering Co and Power Wheeler.

Arthur S. Griswold, assistant to Edison's president Walker L. Cialer, has announced that their team has completed its first studies. On the strength of them they feel that conditions are right for the next step, an actual design.

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Coming Events

March 24-27—Second Annual American Power Conference, Sherman Hotel, Chicago, Ill. R. A. Budenbinder, Illinois Institute of Technology, General St., Chicago 16, Ill.

March 24-27—National Power and annual meeting National Association of Power Engineers held in conjunction with American Power Conference, Sherman Hotel, Chicago, Ill. A. F. Thompson, W. Adams St., Chicago, Ill.

April 13-15—American Society of Mechanical Engineers, annual meeting, Hotel Statler, Boston, Mass. W. P. Yang Jr., ASME, 343 S Dearborn St., Chicago, Ill.

April 28-30—American Society of Chemical Engineers, spring meeting, Hotel Warrick Hotel, Columbus, Ohio. Schier, mgr., ASME, 29 W 59th St., New York 18, N.Y.

ALLIS-CHALMERS
RECTIFIERS

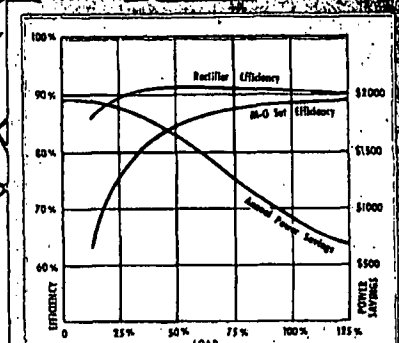
HERE'S PROOF

of Low-Loss Conversion

TO OBTAIN economical dc power for arc furnace and blooming mill auxiliaries, West Virginia Steel & Manufacturing Company recently installed mercury arc rectifiers.

The factory-packaged Allis-Chalmers unit includes duplicate 500-kw, 250-volt rectifiers, with tube, breaker, control, and metering compartments, plus dc and ac plant feeder breakers. Since transformers could be installed outdoors, the assembly departs from the usual double-ended arrangement.

Rectifiers were chosen for their high conversion efficiencies plus simplified foundation needs, easy installation and minimum maintenance. And Allis-Chalmers units incorporate continuous excitation, grid phase control, internal cooling and enameled anode seals.



Comparison of conversion efficiencies of 500-kw, 250-volt rectifier and synchronous motor-generator set. Savings shown based on 1¢ per kw-hr power cost. In addition, no-load idling loss of rectifier is less than one-fourth that of the motor-generator set.

Use A-C's Engineering Experience

By calling your A-C representative, you can put A-C's quarter century of rectifier application experience to work on your power conversion problems. Allis-Chalmers, Milwaukee 1, Wisconsin.

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Our Engineers Introduced Mercury Arc Rectifiers to U. S. Industry

