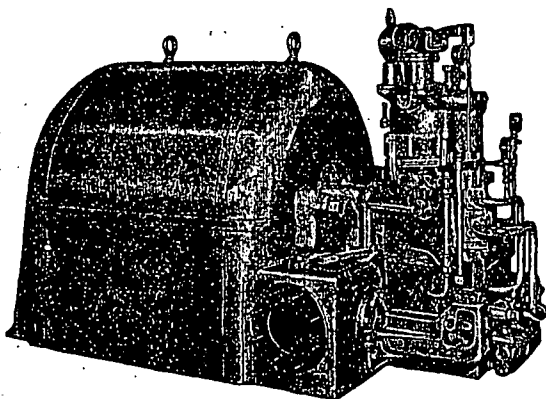


MURRAY TYPE UV



MULTI-STAGE STEAM TURBINES

Simplicity and reliability characterize the Murray Type UV Turbine. Available in from two to ten pressure stages on two basic pitch diameters. The Type UV can be supplied in capacities from 100 to 4000 HP, condensing or non-condensing. It can be used for mechanical drives or for smaller generator drives.

Murray Type UV is durably built for dependable performance. Horizontally split case construction to suit operating conditions. Blades are stainless steel, shafts of alloy steel. The assembled rotors are dynamically balanced. Governors are provided to suit specific job requirements.

Let our engineers cooperate in smoothing out your power problems.

WRITE FOR BULLETIN T-122

MURRAY IRON WORKS COMPANY

BURLINGTON, IOWA

BUILDERS OF STEAM POWER EQUIPMENT FOR THREE QUARTERS OF A CENTURY

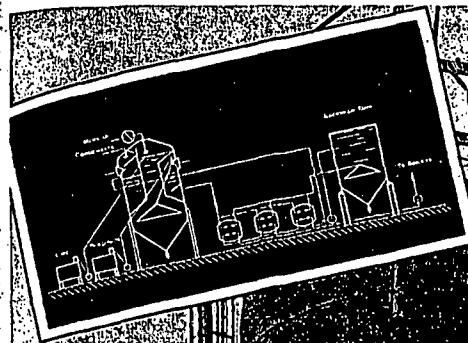
Philip D. Reed, chairman of board of General Electric Co., has been elected chairman of research and policy committee of Committee for Economic Development. In this capacity he will direct research activities of this organization, succeeding Raymond Rubicam whose term has expired. The announcement was made by W. Walter Williams, of Seattle, chairman of CED, at a press conference in New York at which he and Reed outlined a broad program of research to be undertaken by CED as a permanent organization.

In announcing a new program detailing perplexing areas of our economy to which CED will devote its immediate research studies, Reed listed the following: (1) safeguards against extremes of economic instability—fiscal and monetary policy to combat inflation and deflation (2) how to raise real wages—money wage rates vs real wage rates vs real labor incomes—putting more purchasing power in the pay envelope (3) federal tax policy for 1949 (4) international economic readjustment (5) allocation of resources in a defense economy (6) how to keep our economic and individual freedoms in a garrison state.

Pacific Gas & Electric Co. has announced plans for construction of two 300,000-kw steam-operated electric-generating plants, one near Moss Landing and the other near Oakland, Calif. The two plants, each to cost about \$50,000,000, will be the largest ever built in the PG&E system. Each of the plants will have three 100,000-kw generators and will be equipped to burn oil, gas or coal for fuel. The first generating unit in Moss Landing plant is scheduled to go into service early in 1950, with the other two planned for operation a year later. The Sando plant, near Oakland, will go into operation in 1951.

American Society for Testing Materials has issued some 29 standard specifications and tests covering coal and coke, published in a special compilation of 163 pages. The standards are given as of Sept. 1948 and incorporate a number of changes, made during the current year, and certain new material. Test methods and procedures pertaining to coal cover sampling, analysis for volatile matter in connection with explosives, grindability, drop shatter test, analysis, cubic-foot weight, index of caking and free-swelling. Specifications cover classification of coals by rank and grade. Write to ASTM Headquarters, 1916 Race St., Philadelphia 3, Pa. for copies of this booklet at \$2.00 each.

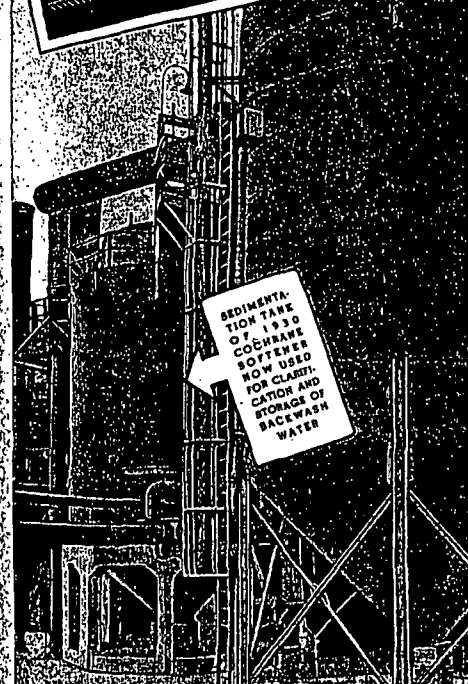
National Bureau of Standards has announced a revision of fuel-oils commercial standard CS12-40, the revision to be identified as Commercial Standard CS12-48. Purpose of the revision is to bring the standard into line with current refinery practice and burner construction. The specification covers five grades of fuel oil for various burner equipments. Printed copies of Commercial Standard CS12-48 will be available as soon as practicable. Until that time, write to Commodity Standards Div., National Bureau of Standards, Washington 25, D. C. for mimeographed copies.



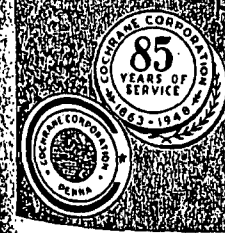
Concentrated
Boiler Water is
Always
CRYSTAL
CLEAR

At the Lockport, Ill. plant of The Texas Company, expansion of steam facilities made necessary provision for water treatment to meet this expansion. A Cochrane Hot Process Softener of 70,000 gph was installed, replacing a 32,000 gph Cochrane Hot Process Softener which had been in use since 1930. Ingeniously, the sedimentation tank of this old softener is now used for the clarification and storage of backwash water. The Two-Stage Softener was adapted because of the high-carbonate high-hardness waters of the region. The Cochrane Two-Stage method combines the use of lime and soda ash for precipitating the bulk of the hardness, with phosphate to precipitate the remaining hardness. Final attainment of "zero" hardness is in the second stage by means of phosphate. While the raw water hardness is extremely variable, operations have been so successful that concentrated boiler water is always crystal clear. Write for details on Two-Stage Softening.

COCHRANE CORPORATION
3106 North 17th Street
PHILADELPHIA 32, PENNSYLVANIA



SEDIMENTATION
TANK
OF 1930
COCHRANE
SOFTENER
NOW USED
FOR CLARIFICATION
AND STORAGE OF
BACKWASH
WATER



COCHRANE

HOT PROCESS WATER SOFTENERS