

each generating unit. These are 36 ft in diameter, 75 ft high, and hold 1200 tons, each. Two silos hold enough coal to operate their generating unit 40 hours at full load. Thirty-inch vertical pipes drop coal from these silos to the coal feeders. After pulverizing, coal burns in 12 horizontal burners per boiler.

Coal is pulverized by two 10-ft inside diameter by 11-ft long ball tube mill type pulverizers, fed at each end by a table feeder automatically controlled by the coal level in the pulverizer. Two exhausters per pulverizer supply pulverized coal to 12 horizontal turbulent burners mounted in two rows in the front wall of the furnace.

The freeze protection system for this plant is more elaborate than is found in the usual outdoor plant because the plant is designed to be shut down at night and over week ends. It is, therefore, more susceptible to freezing than a plant operating "round-the-clock."

Protection against freezing during

shutdown is achieved by placing most vital equipment within enclosed space where heat is provided. Removable enclosures not normally heated are held above freezing by electric heaters. Outdoor pipelines have heating cables beneath the thermal insulation.

Elliott motors, ranging in size from 1½ to 2500 hp, drive pumps, fans, compressors, and other auxiliaries in the station. Many of these are shown in the photographs reproduced here.

All motors 250 hp and larger are supplied direct from the 4-kv bus. Other motors down to 75 hp are connected to one of the three 480-volt load centers, each load center being supplied by a 1000/1350-kva dry-type transformer. One of these load centers is located in each of the turbine, boiler, and coal crusher house areas. Motors smaller than 75 hp are supplied from any one of the 13 conveniently located 480-volt contactor cabinets. All motors, except for a few special types, are induction motors

with across-the-line starting. Motors located indoors are standard drip-proof; outdoor motors are completely-enclosed or weather-protected.

Pennsylvania Power & Light Company published two excellent books on the Martins Creek station which were available at the time of the station dedication. Both books were of 9 in. x 12 in. page size, printed in two colors. One 20-page book told the story of the plant simply for the general public. It carried a dramatic story emphasizing employees which the book called the "company's biggest asset"; it indicates the pride of the company in its more than 86,000 stockholders. The other book, 32 pages and cover, gave a more complete and technical story of the plant and is illustrated by drawings showing arrangement of the equipment, heat balance, wiring diagrams, as well as numerous photographs, and a big centerspread aerial view. It gives a detailed list of equipment, as well as maps of the company system.



Credit Union Handles Big Money

These men, the officers, directors, and committeemen of the Elliott Company Employees Credit Union, Jeannette Works, have the responsibility of handling a considerable amount of money. Members pay in \$50,000 monthly by payroll deduction.

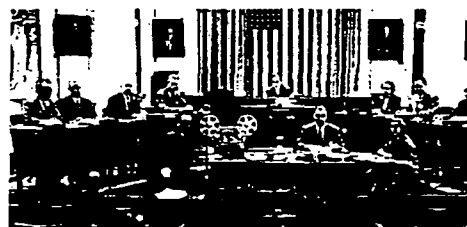
Chartered in 1935 with 25 members and \$125 in assets, the Credit Union now has 1500 members and \$562,717 in assets. Almost \$2,000,000 in loans have been made.

Thomas A. Smith, Jr., seated at left, is serving his tenth year as treasurer. R. E. Wurthner, standing third from left, is serving his 20th year as an official on the credit committee.

Elliott men engage in various group activities

Councilman Honefenger

This is a meeting of the City Council of University City, suburb of St. Louis, Mo. Councilman at extreme left is none other than H. W. Honefenger, Elliott district manager, who, besides being very active in engineering circles, as noted recently in *Powerfax*, also finds time to serve his community in this way.



Elliott Men at Tappi Meeting

This photograph of Elliott Company men in attendance at the ninth engineering conference of the Technical Association of the Pulp and Paper Industry, in Philadelphia last fall, was run in the December issue of *Pulp & Paper*. Shown, left to right, are J. R. Lemmon, district manager, Philadelphia; H. W. Kinsel, district manager, Boston; H. D. Moll, H. S. Mills, and W. M. Morley, Philadelphia; C. L. Harvey, Ridgway; C. L. Hoebel, New York.

