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That's too much.
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PUBLIC SERVICE COMPANY TO HOLD OPEN HOUSE

Southwestern Public Service Company will hold open house at Harrington Station, Saturday and Sunday, July 30 and 31. The plant, located northeast of Amarillo, one mile north of Nichols Station on Lakeside Drive, will be open to the public on Saturday from 12 noon to 6 p.m. and on Sunday from 1 p.m. to 6 p.m.

Harrington Station is the first generating plant on Southwestern's system to use coal as its primary fuel. The first unit, rated at 356,000 kilowatts, was put into service in mid-1976 and is using about 3500 tons of coal per day. During some of the summer months this consumption will be in excess of 4000 tons per day.

The second generating unit at Harrington is under construction and is about fifty percent complete. It is scheduled to go on the line next summer and will also have a capability of 356,700 kilowatts. Construction of the third unit of the same size will begin in

the next few weeks and is scheduled for completion in 1980. All three of the Harrington generating units will use coal-fired boilers.

The coal used at Harrington Station is low-sulphur western coal, mined and brought in by unit train from Gillette, Wyoming. The trains have about 110 cars and are designed and built specifically to haul coal. Each train brings about 11,000 tons of coal to the plant on a twice-a-week schedule.

The boilers at Harrington station are equipped with the most advanced equipment, available at this time, for preventing objectionable products of combustion from reaching the environment. Both electrostatic precipitators and stack gas scrubbers were installed on the first unit at a cost of approximately \$20-million. The number 2 unit will utilize a fabric filter stack emission control system known as a "baghouse". This environmental control equipment

is necessary for compliance with the Texas and Federal air control regulations.

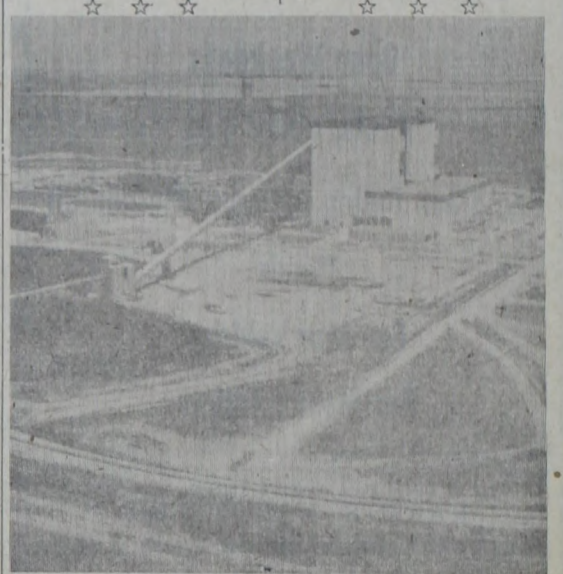
The use of sewage effluent for boiler and cooling water—a practice pioneered by Southwestern Public Service Company at Jones Station in Lubbock, Nichols Station and Harrington Station in Amarillo will continue to save millions of gallons of fresh water per day. The three plants use an average of 9-million gallons of sewage effluent a day, saving enough fresh water to serve the residential, commercial and industrial needs of a city of 100,000 people. It takes about 450 gallons of water per month to generate the power for a residential customer using 600 KWH per month. The investment for water quality control equipment was about \$6-million.

The principal plant capability of Southwestern Public Service Company is presently 2,746,800 kilowatts. This includes 2,313,200 in steam plant capability and 133,600 kilowatts in gas turbine and expander turbine capability. With the completion of the number 2

unit, Harrington Station will become the largest plant of Southwestern's system. In 1980, when the third unit goes on the line, Harrington will have a capability of over 1-million kilowatts and at that time approximately 30% of the system generating capability will be coal-fired.

The design engineering and construction supervision was done by Southwestern's own generating plant design department, under the direction of Jim Matthews, manager, generation and design construction. Missouri Valley Constructors, Inc. of Amarillo, was the mechanical and structural contractor and Budwine Electric Service Company, Carlsbad, New Mexico, was the electrical contractor.

J. B. Bottoms was the resident engineer for Southwestern Public Service Company during the construction of the first unit, and Jerry Hermesmeier is the plant manager. Bottoms will also serve as resident engineer for construction of the second unit.



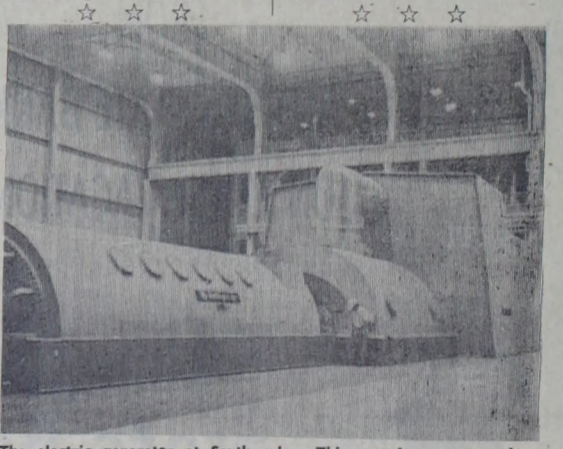
Southwestern Public Service Company's newest generating plant, Harrington Station, is located northeast of Amarillo. It has a generating capability of 356,700 kilowatts and uses coal as its primary

fuel. The second 356,700 kilowatt unit at Harrington Station will be completed in mid-1978 and a third unit of the same size is scheduled to go on the line in 1980.



Low-sulphur western coal is the fuel for Southwestern Public Service Company's Harrington Station. Located northeast of Amarillo, Harrington Station is the new-

est plant on Southwestern's system and the first to burn coal. The fuel is mined in Gillette, Wyoming and delivered to the plant in 110-car unit trains on a twice-a-week schedule.



The electric generator at Southwestern Public Service Company's new Harrington Station is rated at 356,700 kilowatts, the equivalent of 478,000 horsepower. The turbine rotates at 3600 rpm and its speed is controlled so that it is constant, within one revolution per

day. This amazing accuracy keeps electric clocks on time and is used by industry for precision control of production operations. The generator output is 22,000 volts which is then stepped up by a transformer to 230,000 volts for more efficient power transmission.

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