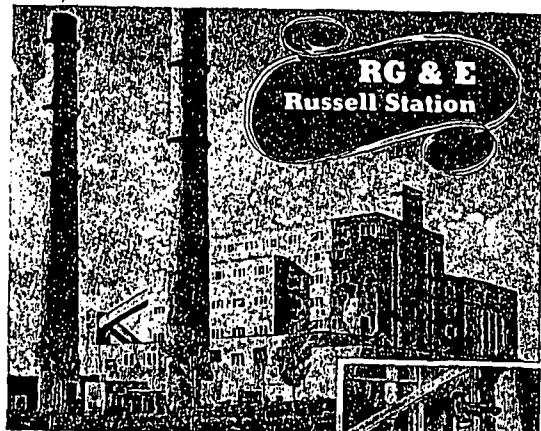




RG & E Russell Station

Safety Valve Report:

- "2 YEARS IN SERVICE..."
- NO MAINTENANCE...
- STILL TIGHT!**

That's the report from Rochester Gas & Electric Co. on the Foster Super Jet Safety Valves on the #2 unit of their new Russell Station.

Other points they like about these valves are their greater capacity, so that fewer valves are necessary, and their accessibility for inspection and service.

Foster Super Jet Safety Valves give better protection two ways: absolute protection against overpressure, and greater protection against costly outages caused by service failures.

For full information on Foster Super Jet Safety Valves, ask for Bulletin 80-SV.



PRESSURE REGULATORS • RELIEF AND BACK PRESSURE VALVES • CUSHION CHECK VALVES • FAN ENGINE REGULATORS • PUMP GOVERNORS • TEMPERATURE REGULATORS • FLOAT AND LEVER BALANCED VALVES • NON-RETURN VALVES • VACUUM REGULATORS OR BREAKERS • STRAINERS • SILENCERS • SAFETY VALVES • FLOW TUBES

FOSTER ENGINEERING COMPANY • UNION, N. J.

More POWER NEWS

under construction or design three plants of major size gives some idea about the present status of the atomic controlled nuclear energy. One of the nuclear power plants is a prototype could be installed in a submarine. A full-size working model of the atomic plant located at the Naval Reactor Testing Station near Annapolis. The second plant is known as Mark II, manufacture has been started on the components. The submarine reactor for which the keel was laid by the Boat Co last July, will be the first marine to receive this revolutionary type of power plant. In the reactor, Mark I and Mark II, water is both moderator and the primary coolant. In the Nautilus, nuclear energy will be used for large-scale control-power generation for the first time. This will mean an around-the-world submarine. The project concerns the design and construction of another nuclear power plant, times larger than those mentioned. It is planned that this power plant will be suitable to power major naval vessels, as aircraft carriers. However, it could be a forerunner of the reactors which may be used to produce useful electricity for homes and industry.

A 36,000-hp wound-rotor electric motor, one of the world's largest, has been installed in the Boeing Airplane Co. tunnel at Seattle. Custom-built by Westinghouse Electric Corp., the new motor will be used in conjunction with the mill's original 18,000-hp motor, the Boeing the most powerful privately owned wind tunnel in the world. It stands 12 ft high, weighs 225,000 lb and will operate 680 rpm, with a clearance of .09 in. between rotor and stator.

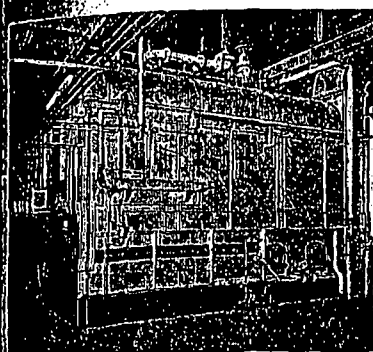
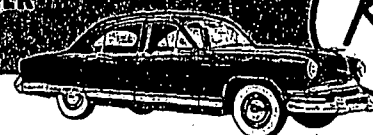
Delayed delivery of three enclosed generator parts for the Detroit Dam hydro-powerhouse has postponed the start date of the Willamette Valley project. The generating plant was scheduled to start turning out power for the Willamette Power Administration system by 1. But the delay, according to Rutherford, project engineer, means require most of the winter to assemble parts and place generators in operation. Detroit Dam will have a peak output of 100,000 kw. The Big Cliff Dam and powerhouse, 3 mi. downstream, are scheduled to generate a constant 18,000 kw.

Electric power from the Aqueduct Owens Gorge hydroelectric plants in Los Angeles Department of Water Power started flowing into the west Fernando Valley December 15, in spite of a threatened power shortage in the area this winter. Initial operation of the line will supply the West Valley area an additional 35,000 kilowatts of power, vitally needed by the fast growing area where electric demands have more than tripled in the past 10 years.

3

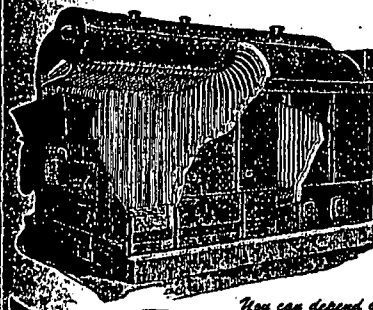
CITY VL's Pay Off in 18 Months

KAISER-FRAZER



Above: Battery of 3 Erie City "VL's"—oil and gas fired—that replaced 7 obsolete coal fired units at a Detroit plant of Kaiser-Frazer Corporation.

Below: Sectional view of standard factory-assembled Erie City "VL" boiler with Erie City powder stoker. Available for all firing methods.

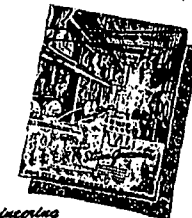


Before modernization of the E. Jefferson Avenue Detroit plant of Kaiser-Frazer, seven coal fired boilers dating from 1911 and 1920 were in service. The new power plant consists of 3—20,000 pounds per hour Erie City "VL's" for oil and gas firing. They supply steam for heating and process.

While the cost of steam, using coal, would be about 5 cents less per thousand pounds, the use of oil and gas reduced capital investment due to the elimination of new coal storage and allied equipment. Average boiler efficiency of the 3 new Erie City "VL" boilers is 81.5%. Power house labor was reduced from 14 to 6 men. The combined savings from greater efficiency, minimum maintenance and reduced labor costs is expected to pay for the new boiler installation in 18 months.

Are you wasting fuel dollars with worn out boilers? Let Erie City Engineers recommend steam generators that will pay for themselves out of savings.

20 Page Catalog describing Erie City "VL's" in detail shows its easy adaptability to all firing methods and illustrates its superior design features. "VL's" are factory assembled to 300 hp. and field erected in larger sizes. Ask for Bulletin SB-43.



You can depend on Erie City for sound engineering



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UNDERFED AND SPREADER STOKERS • PULVERIZERS