

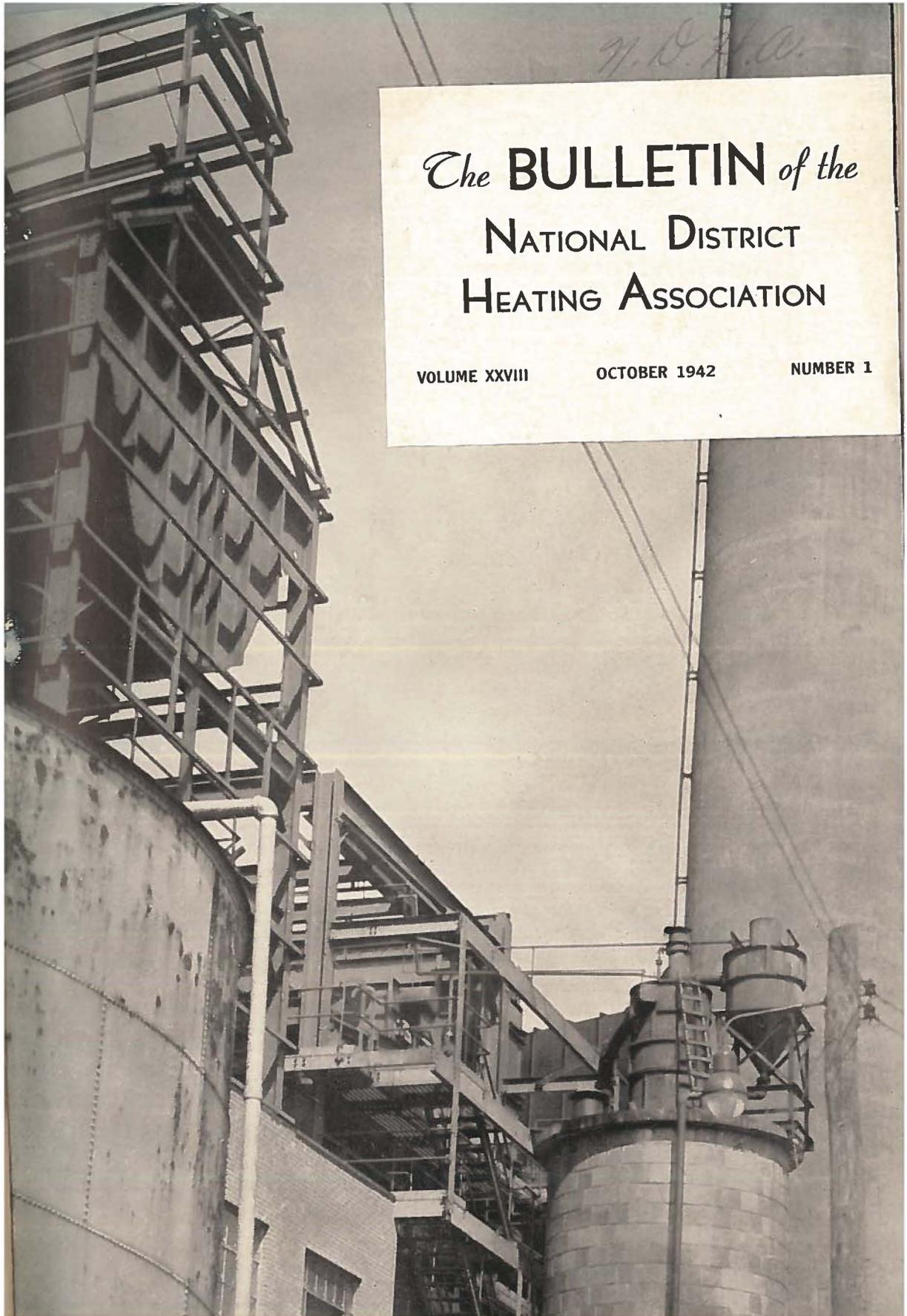
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TAUNTON INSTALLS ADDITIONAL BOILER AND ELECTRIC GENERATOR

The Taunton Municipal Lighting Plant, Taunton, Massachusetts, has erected a new semi-out-door type steam generator and a 5000-Kw. Westinghouse topping turbine unit at its West Water Street plant. (The installation is pictured on the front cover).

The old part of the plant contains 4 B&W Sterling boilers installed in 1921, 1926 and 1933.

In addition to furnishing electric service in Taunton, Raunham and Berkley, the Taunton Plant serves important industries, all within three-fourths mile of the plant, with steam and electricity. The requirement of each being well balanced, all steam is first used to make electricity. The plant additions were necessitated by increased war demands of these manufacturing plants. Availability of the service permitted two manufacturers to get into production without the delay which would have occurred had they been forced to build their own steam stations.

Mr. Chester F. Buckley, Manager of the Plant, says that \$25,000 in building construction costs were saved by using a semi-outdoor boiler with an additional equipment cost of only \$2000 for weatherproofing insulation.

Interesting statistics about the Plant are as follows:

Boiler

Type—Riley—steel-encased

Continuous Capacity—170,000 lbs. of steam per hour at 900 psi and 825° F.

On 3 hour peak, Capacity—212,000 lbs. of steam per hour.

Guaranteed efficiency at 113,200 lbs. per hour is 87.8%.

Fuel—Oil or pulverized coal.

Heating Surface 7,885 sq. ft.

Water Walls 3,200 sq. ft.

Superheater 4,200 sq. ft.

Air Heater 27,000 sq. ft.

Economizer 4,200 sq. ft.

Over-all height 64'-6"

Combustion control—Bailey

Fans—Sturtevant

Feed Pumps—Worthington

Coal Handling System—Link Belt—50 Tons per Hour.

Ash Removal—National Conveyors Co., Inc. Pneumatic

Deaerating Heater—Permutit.

Much of the steam is transmitted to the industrial plants at 200 psi, some at 50 psi.

District Heating in the U. S. S. R.

Records of 1936 show that there were in Russia at that time combination district heating and power plants in Moscow, Leningrad, Saratov, Kuibyshev, Ivanovo, Yar-

oslavl, Pskov, Gorki, Kharkov, Rostov-on-Don and in a number of other cities. Of these, only Kharkov and Rostov have fallen in the hands of the German armies.