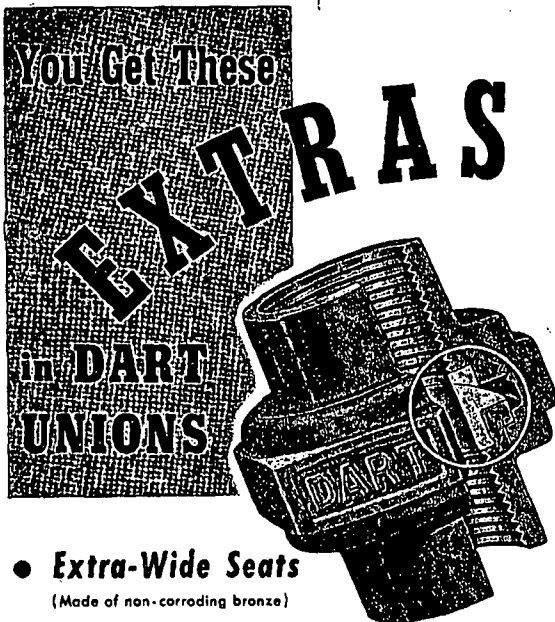




• Extra-Wide Seats

(Made of non-corroding bronze)

• Extra-Strong Body

(Made of air-refined malleable iron)

• Extra-Heavy Shoulders

(To withstand strains and abuse)



And their two bronze seats
are ground to a True Ball Joint

Darts maintain their leadership in unions by their extra-sound construction. Their two extra-wide bronze seats are spherical-ground to form true bearing surfaces, making a drop-tight connection. They uncouple without damage and without excessive wrench pressure and can be used in other locations, as needed, again and again. Body and nut are made of high-test, air-refined malleable iron and are practically indestructible.

For long service at low cost, always specify Darts.

E. M. DART MFG. CO.
PROVIDENCE 3, RHODE ISLAND



offset by the production of plutonium in the pile from U238.

Nuclear power plants may use helium or other fluids with low neutron absorption to absorb heat from the pile and to generate power in a gas turbine or steam in a heat exchanger.

Further experiments may prove feasibility of "breeding piles" in which the burning of one pound of U235 produces more than one pound of the product plutonium. This achievement would make the whole mass of natural uranium available as a fuel even though U235 is but 0.7% of the total. Thus 170 tons per year would generate the entire present world's consumption of electricity. WPC Paper No. 3, Sec. A6.

Electronic Control of Combustion in Steam Boilers, by Dr Ing Zdenek Ryska, Czechoslovakia, Fuel Economy Conference. Practical technology, characterized by a marked tendency toward efficient control of boiler-furnace combustion to secure more economical use of fuels, has opened new possibilities through electronic methods. Older systems of combustion control are described and compared with the new electronic methods and the results given, particularly elimination of fluctuations of some important physical values that influence operation of boilers and indicate the chief advantages of electronic control. WPC, Paper No. 12, Sec C2.

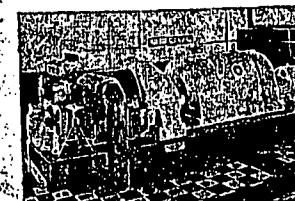
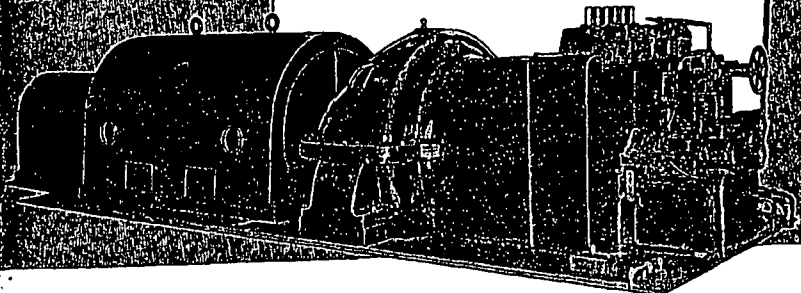
Combined Steam and Electric Supply in New York, by W F Davidson and M. J. Steinberg, Consolidated Edison Co of New York. In 1934 when an extensive program was launched to modernize Waterside generating station, studies indicated large fuel saving could be made by combining power generation with steam supply for district heating. This was one of several factors that led to installation of topping turbines. With this program only partly completed, turbine exhaust in 1946 supplied 37%, or 6 billion lb of steam to the district-heating system, resulting in a large fuel saving and a 4% reduction in boiler capacity. It is estimated that when modernization is completed, about 1950, 80% of all district-heating steam will be turbine exhaust with a comparable fuel saving; it will permit shutting down lower efficiency stations for a considerable part of the time. WPC, Paper No. 1, Sec C5.

Dark Fuels: Diesel, Boiler and Gas Turbines, by J J Broeze, Royal Dutch Shell, Netherlands. Engine design and fuel characteristics have to go hand in hand

HAS
OPERATED
99%
OF THE TIME
SINCE 1939

REPORT BY THE CITY OF ST. MARY'S
ON THE INSTALLATION OF 2500 KW
WORTHINGTON TURBINE GENERATOR

2500 KW
750 DEGREES
HOT TEMPERATURE
AND EXHAUST
INTO A VACUUM OF 28"



2500 KW Worthington unit installed in 1939. Turbine, straight, condensing type, operates on 400 lbs. steam pressure, 750 degrees total temperature and exhausts into a vacuum of 28"

A GREAT
TEAM
IN
STEAM



Mr. George Probst
Worthington Pump and Machinery Corporation
Steam Turbine Division
Wellsville, New York

Dear Mr. Probst:

You will be interested, I'm sure, to learn that our new 2500 KW Worthington Turbine Generator has been running continuously since it was put on the line about six months ago.

It's been eight years now since our original 2500 KW Worthington unit was started and it has operated 99% of the time ever since. On a number of occasions, it has carried loads of 3000 to 3500 KW for periods of three to four hours. We run both units a large portion of the time and they parallel very nicely.

In fact, we do so well with these Worthington units that we would be glad to show them in operation to any of your prospective customers who care to visit our plant.

Very truly yours,
CITY OF ST. MARY'S

J M Hagaman
City Engineer and Director
of Service and Safety

Many similar reports from power users throughout the country testify to the trouble-free, cost-saving performance of Worthington steam turbine equipment. In your own turbine problems, Worthington specialists are always available for expert technical advice. And for further proof that there's more worth in Worthington, write for fact-full literature. Worthington Pump and Machinery Corporation, Steam Turbine Division, Wellsville, N Y.

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