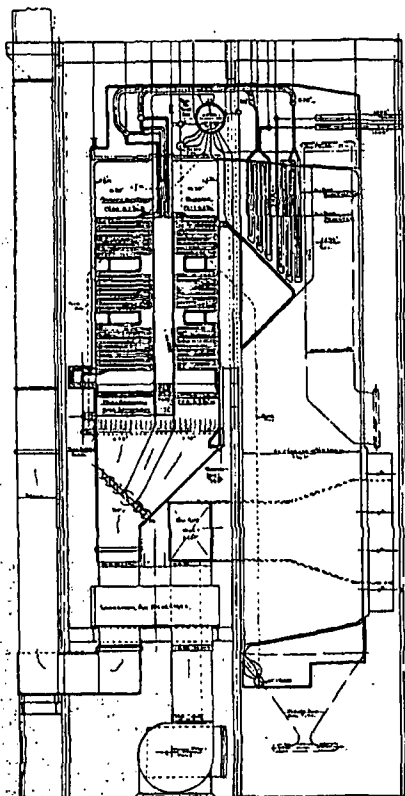


TEXAS GOES FOR RILEY REHEAT UNITS IN A BIG WAY



RILEY REHEAT UNITS
recently purchased by
TEXAS ELECTRIC SERVICE CO.
DALLAS POWER & LIGHT CO.
HOUSTON LIGHTING & POWER CO.

Capacity—1,250,000 lbs./hr.
Design Pressure—2125 psig
Superheater Outlet Pressure—1925 psig
Steam Temperature—1005°F.
Reheater Capacity—1,148,000 lbs./hr.
Reheater Outlet Pressure—470 psig
Reheater Temperature—1005°F.
Efficiency, Gas Firing—83.7 %
Pressurized Furnace
Fired by Gas—Oil Standby
Designed for future conversion to lignite firing
Ebasco Services, Inc., Engineers

Method of Steam and Reheat Temperature Control

Steam temperature is maintained constant between 900,000 and 1,250,000 lbs./hr. and reheater temperature between 825,000 and 1,148,000 lbs./hr. by means of gas flow control dampers.

Gas flows over superheater and reheater primary surface are automatically controlled by dampers located below the economizer. This provides definite control of both steam and reheat temperatures. The flow of gases over superheater and reheat surface is proportioned to give the desired temperature of 1005°F. from each.

At high loads where the quantity of gas passing over superheater and reheater surfaces would give higher than desired temperature, part of the gas is by-passed through the open lane between superheater and reheater surfaces. Note that the quantity of economizer surface in the by-pass line is greater to give approximately uniform economizer exit gases.

TEXAS ELECTRIC SERVICES CO.
DALLAS POWER & LIGHT CO.
HOUSTON LIGHTING & POWER CO.

have recently ordered 1,250,000 lbs./hr., 2125 design pressure, 1005°F. steam temperature and 1005°F. reheat temperature Riley steam generating units. These will be the first gas-fired reheat units to be installed in Texas.

While the Riley units purchased by Texas Electric Service Company and Dallas Power and Light Company are the first Riley units ordered by these companies, the two 1,250,000 lbs./hr. Riley reheat units purchased by Houston Lighting and Power Company will be the tenth and eleventh Riley units installed by them since 1938 and will give Houston over 7,000,000 lbs. per hour capacity of Riley units.

When such a large public utility company places ten recent orders with Riley extending over a 15-year period, that is conclusive evidence that Riley is a good company to do business with, that the performance of Riley equipment has been highly satisfactory and that Riley gives their customers their money's worth.

It will pay you to investigate Riley equipment and send a Riley proposal when you are considering steam generating or fuel burning equipment. Riley users will assure you that you can rely on Riley.

Other Riley Public Utility Installations

DEPARTMENT OF WATER AND POWER
CITY OF LOS ANGELES, CALIFORNIA
1,100,000 lbs./hr., 2125 psig, 1000°F.
and 1005°F. reheat.
LOUISIANA POWER & LIGHT CO.
1,000,000 lbs./hr., 1725 psig, 1005°F.
and 1005°F. reheat.
Ebasco Services, Inc., Engineers
SOUTHWESTERN GAS & ELECTRIC CO.
630,000 lbs./hr., 1025 psig, 1005°F.
Bergant & Lundy, Engineers
MONROVIA POWER CO.
700,000 lbs./hr., 1050 psig, 905°F.
Benderman & Porter, Engineers
UTAH POWER & LIGHT CO.
575,000 lbs./hr., 1100 psig, 1000°F.
and 1005°F. reheat.
Bechtel Corp., Engineers
CANTON, ILLINOIS LIGHT CO.
600,000 lbs./hr., 950 psig, 900°F.
Commonwealth Services, Engineers
NORTHSTAR STATES POWER CO.
385,000 lbs./hr., 1500 psig, 950°F.
Pioneer Service & Engineering, Engineer
SOUTH CAROLINA PUBLIC SERVICE AUTHORITY
400,000 lbs./hr., 1025 psig, 900°F.
Ford, Bacon & Davis, Engineers
TEXAS POWER & LIGHT CO.
700,000 lbs./hr., 1050 psig, 905°F.
Benderman & Porter, Engineers
IOWA ELECTRIC LIGHT & POWER CO.
300,000 lbs./hr., 975 psig, 910°F.
Oliver Power Co.
225,000 lbs./hr., 1000 psig, 900°F.
Southern Services, Engineers
SOUTH CAROLINA GAS & ELECTRIC CO.
400,000 lbs./hr., 1475 psig, 935°F.
Gilbert Associates, Engineers
UTAH POWER & LIGHT CO.
575,000 lbs./hr., 1500 psig, 915°F.
Bechtel Corp., Engineers
IOWA-ILLINOIS GAS & ELECTRIC CO.
250,000 lbs./hr., 975 psig, 905°F.
Bergant & Lundy, Engineers
PUBLIC SERVICE CO. OF ILLINOIS
400,000 lbs./hr., 1000 psig, 910°F.
Bergant & Lundy, Engineers
DEPARTMENT OF WATER AND POWER
CITY OF LOS ANGELES, CALIFORNIA
1,100,000 lbs./hr., 1100 psig, 900°F.
ARKANSAS POWER & LIGHT CO.
550,000 lbs./hr., 1050 psig, 905°F.
Ebasco Services, Inc., Engineers
UNION ELECTRIC CO. OF ILLINOIS
370,000 lbs./hr., 1000 psig, 905°F.
SOUTHWESTERN PUBLIC SERVICE CO.
330,000 lbs./hr., 1050 psig, 900°F.
CAROLINA POWER & LIGHT CO.
330,000 lbs./hr., 1025 psig, 905°F.
Ebasco Services, Inc., Engineers
PENNSYLVANIA ELECTRIC CO.
300,000 lbs./hr., 975 psig, 900°F.
Duquesne, Engineers
OHIO ELECTRIC CO.
225,000 lbs./hr., 975 psig, 900°F.
Commonwealth Services, Engineers
MISSISSIPPI POWER CO.
330,000 lbs./hr., 975 psig, 800°F.
Southern Services, Engineers
WEST VIRGINIA POWER CO.
210,000 lbs./hr., 1000 psig, 910°F.
Benderman & Porter, Engineers
INTERSTATE POWER CO.
200,000 lbs./hr., 715 psig, 910°F.
Bergant & Lundy, Engineers



RILEY

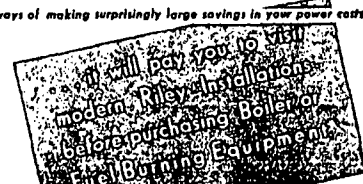
STOKER CORPORATION, WORCESTER, MASS.

Boston New York Philadelphia Washington Buffalo Pittsburgh Cleveland Detroit
Cincinnati Charlotte Atlanta New Orleans St. Louis Kansas City St. Paul
Denver Salt Lake City Los Angeles Portland Seattle

BOILERS • PULVERIZERS • BURNERS • STOKERS • SUPERHEATERS • ECONOMIZERS

Any of your Power Plant by a consulting engineer will possibly show ways of making surprisingly large savings in your power costs

COMPLETE STEAM GENERATING UNITS



WATER-COOLED FURNACES • STEEL-CLAD INSULATED SETTINGS • AIR HEATERS