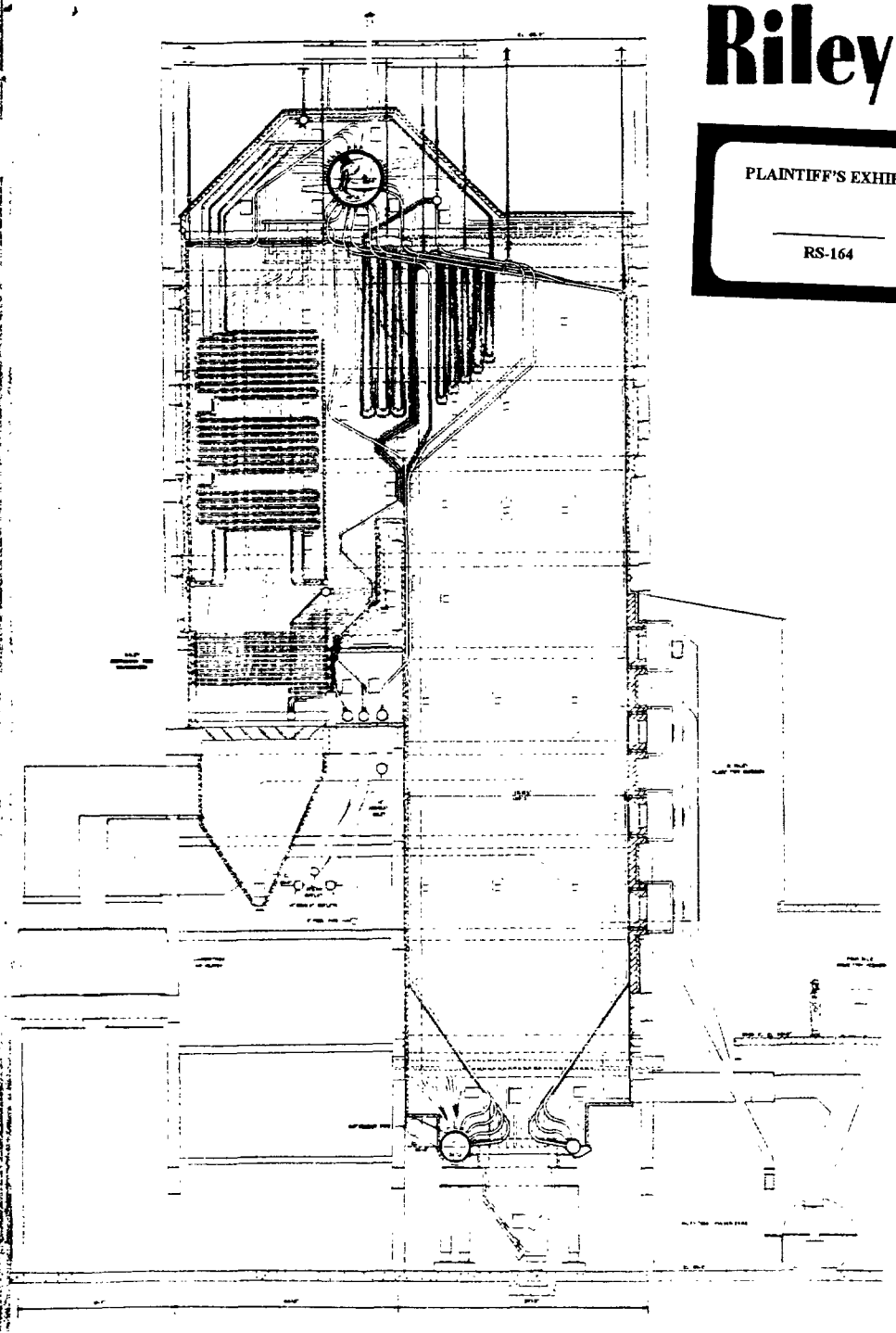
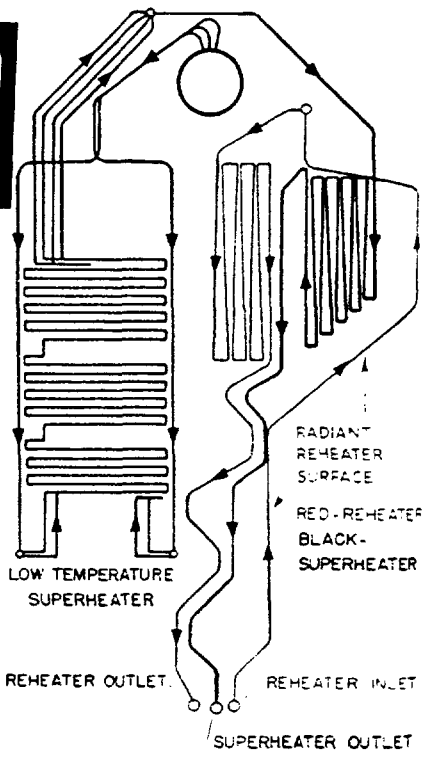
Riley Reheat Uni

PLAINTIFF'S EXHIBIT

RS-164





SUPERHEATER AND REHEATER CIRCUITS

Engineering Data

Capacity, 575,000 lbs. hr.
Design Pressure, 1,700 psig.
Steam Temperature, 1,000°F.
Reheat Temperature, 1,000°F.
Furnace Volume, 53,000 cu. ft.
Temp. Furnace Exit Gas, 1,900°F
Furnace Width, 29'3"
Furnace Depth, 23'10⅞"
Efficiency, 87.8%
Fired by 4 Riley "50" Pulverizers and 12 Riley Flare Type Burners

UTAH POWER & LIGHT CO., SALT LAKE CITY, UTAH
575,000 lbs., hr. — 1700 psig, 1000°F. — 525,000 lbs. hr. reheat — 395 psig, 1000°F.
Bechtel Corp., Engineers.

TRADE MARK Rx REGISTERED

RILEY

STOKER CORPORATION, WORCESTER, MASS.

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

BOILERS • PULVERIZERS • BURNERS • STOKERS • SUPERHEATERS • ECONOMIZERS

...at Utah Power Giving Outstanding Results

The Riley Reheat Unit at Gadsby Station of Utah Power and Light Company went on the line in November and has been giving entirely satisfactory performance since that time.

Operation has proven the advantages and desirability of the radiant section of the reheater, which permits operation at sufficiently low furnace exit temperatures to prevent objectionable furnace slagging and provides a relatively flat reheat temperature curve. No difficulty was experienced with rapid start-up because of this design feature.

The Riley unit is operating with air heater exit gas temperatures approximately 40 degrees lower than guarantees, resulting in appreciably higher than guaranteed efficiencies. Draft losses are also materially lower than guaranteed, providing an additional operating saving.

Here is another case where Riley provided many plus values and gave the purchaser more than his money's worth. Proof that it is profitable to rely on Riley. It will possibly pay you to investigate Riley equipment when considering steam generating or fuel burning equipment.



Twilight view of Riley Units 1 and 2, Utah Power & Light Co., Gadsby Station

A Few Riley Public Utility Sales

Kansas Electric Service Co.
[illegible] lbs. hr., [illegible] psig. [illegible]°F
Riley Services, Inc., Engineers

Duquesne Power & Light Co.
[illegible] lbs. hr., [illegible] psig, [illegible]°F
[illegible] Engineers

[illegible]
[illegible] lbs. hr., [illegible] psig, [illegible]°F
Riley Services, Inc., Engineers

Department of Water & Power
City of Los Angeles, California
[illegible] lbs. hr., [illegible] psig, [illegible]°F
[illegible]

Duquesne Power & Light Co.
[illegible] lbs. hr., [illegible] psig, [illegible]°F
[illegible] Reheat—Pressurized Furnace
Riley Services, Inc., Engineers

Metropolitan Nebraska Power Company
[illegible] lbs. hr., [illegible] psig, [illegible]°F
Sanderson & Porter, Engineers

Southwestern Gas & Electric Co.
[illegible] lbs. hr., [illegible] psig, [illegible]°F
[illegible]
Sargent & Lundy, Engineers

Central Illinois Light Co.
[illegible] lbs. hr., 350 psig, 900°F
Commonwealth Services, Engineers

Northern States Power Co.
350,000 lbs. hr., 1500 psig, 950°F
Pioneer Service & Engineering Co., Engineers

South Carolina Public Service Authority
450,000 lbs. hr., 1325 psig, 900°F
Pyle, Bullivant, Dinnis, Engineers

The Potomac Edison Co.
[illegible] lbs. hr., [illegible] psig, 900°F
Sanderson & Porter, Engineers

Iowa Electric Light & Power Co.
[illegible] lbs. hr., [illegible] psig, [illegible]°F

South Carolina Gas & Electric Co.
[illegible] lbs. hr., [illegible] psig, [illegible]°F
Gilbert Associates, Engineers

Utah Power & Light Co.
[illegible] lbs. hr., [illegible] psig, 950°F
Sargent & Lundy, Engineers

Public Service Co. of Indiana
[illegible] psig, 900°F
Sargent & Lundy, Engineers

Arkansas Power & Light Co.
[illegible] lbs. hr., 1450 psig, 905°F
Riley Services, Inc., Engineers

Duke Power Company
[illegible] psig, [illegible]°F
Sanderson & Porter, Engineers

Kansas City Gas & Electric Co.
[illegible] lbs. hr., [illegible] psig, 1030°F

Ohio Edison Co.
[illegible] lbs. hr., [illegible] psig, [illegible]°F
Commonwealth Services, Engineers

Southwestern Public Service Co.
[illegible] lbs. hr., [illegible] psig, 900°F

Mississippi Power Co.
[illegible] lbs. hr., [illegible] psig, 850°F
Sanderson & Porter, Engineers

Interstate Power Co.
[illegible] lbs. hr., 725 psig, 910°F
Sargent & Lundy, Engineers

A survey of your Power Plant by a consulting engineer will possibly show ways of making surprisingly large savings in your power cost

COMPLETE STEAM GENERATING UNITS

It will pay you to visit modern Riley Installations before purchasing Boiler or Fuel Burning Equipment

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