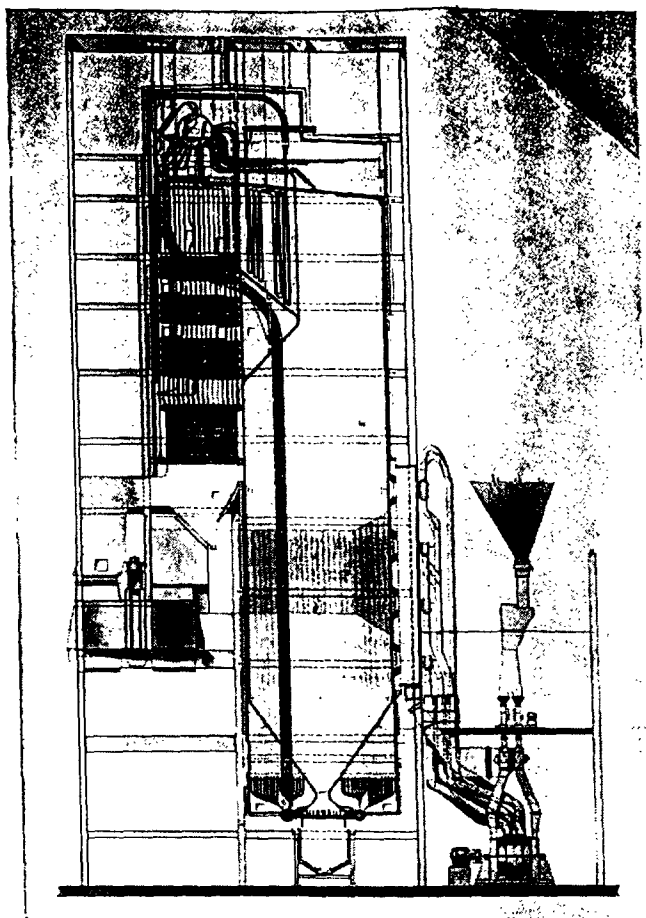


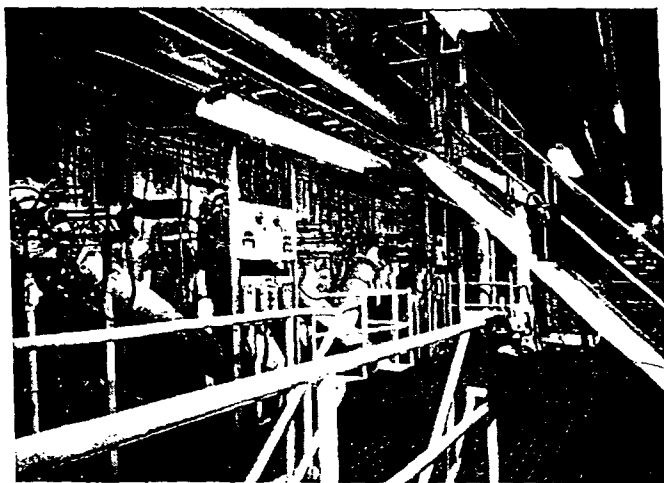
THE new 100,000 kilowatt electric generating unit recently placed in service at Columbus and Southern Ohio Electric Company's Picway Generating Station located a few miles south of Columbus, Ohio, is supplied by a 900,000 lb/hr. Riley Unit that is designed to operate as a swing load unit using Ohio Strip Mine Coals.

The unit features an ample furnace and is fired by four Riley Duplex Pulverizers and twelve Riley Flare Type Coal Burners. This combination of Riley equipment is ideally suited to meet the wide swings in load of the new generating unit.



Picway's New Riley Unit

This new generating unit of Picway Station increases the total installed generating capacity of Columbus and Southern Ohio Electric Company to 560,000 kilowatts, representing an increase of 165% during the past 10 years.



Riley Flare Type Burners at Picway Station maintain continuous, stable ignition at low loads. A common air duct supplies secondary air. Direction and rotation of burner flames is by remote control.

Engineering Data

Maximum steam capacity —	900,000 lbs/hr.
Design Pressure	1500 psig
Steam Temperature	950 F

Commonwealth Associates, Inc., Engineers

A survey of your plant by a consulting engineer could show ways of making surprising savings in your power costs.



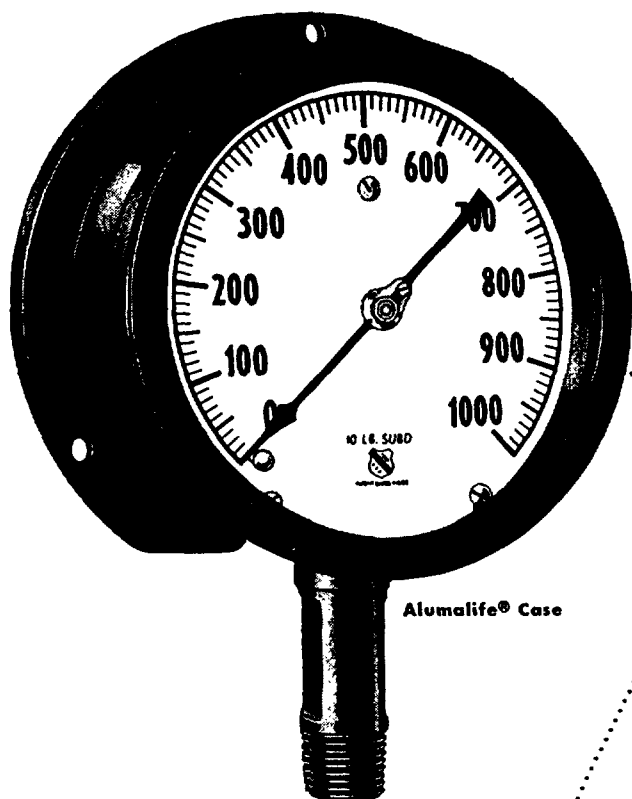
PLAINTIFF'S EXHIBIT

RS-241

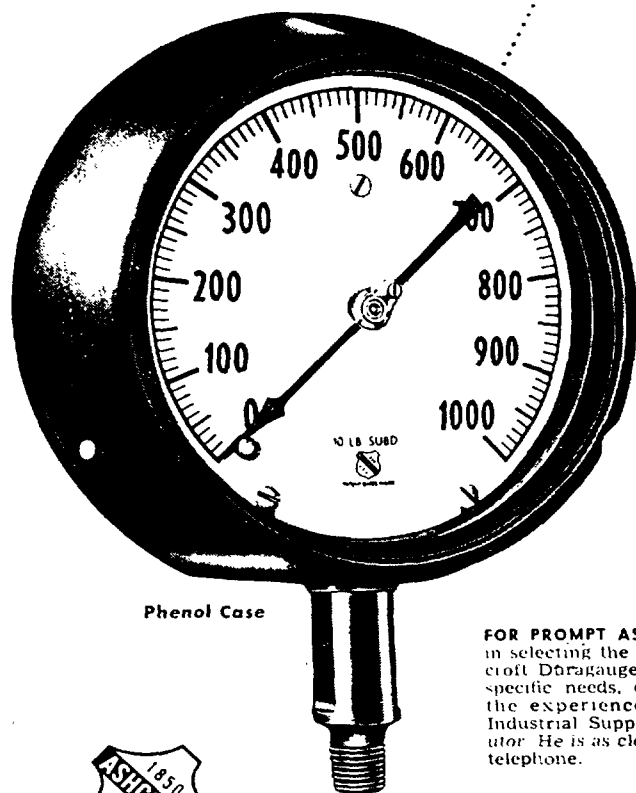
RILEY

WORCESTER, MASSACHUSETTS

Sales Offices: Worcester, New York, Philadelphia, Buffalo, Pittsburgh, Cleveland, Detroit, Chicago, Cincinnati, Charlotte, New Orleans, Atlanta, St. Louis, Kansas City, St. Paul, Houston, Denver (Englewood), Salt Lake City, Los Angeles, San Francisco, Portland, Seattle



Alupalife® Case



Phenol Case

FOR PROMPT ASSISTANCE in selecting the right Ashcroft Duragauges for your specific needs, depend on the experience of your Industrial Supply Distributor. He is as close as your telephone.



In Canada: Manning, Maxwell & Moore of Canada, Ltd., Galt, Ontario

ASHCROFT GAUGES



A product of **MANNING, MAXWELL & MOORE, INC.** STRATFORD, CONNECTICUT
MAKERS OF AMERICAN INDUSTRIAL INSTRUMENTS, 'ASHCROFT' GAUGES, 'CONSOLIDATED' SAFETY AND RELIEF VALVES, AMERICAN MICROSEN INDUSTRIAL ELECTRONIC INSTRUMENTS, Stratford, Conn. 'HANCOCK' VALVES, Watertown, Mass. CONSOLIDATED SAFETY RELIEF VALVES, Tulsa, Okla. AIRCRAFT CONTROL PRODUCTS, Danbury & Stratford, Conn. and Inglewood, Calif. 'SHAW BOX' AND 'LOAD LIFTER' CRANES, 'BUDGIT' AND 'LOAD LIFTER' HOISTS AND OTHER LIFTING SPECIALTIES, Muskegon, Mich.

Why do ASHCROFT DURAGAUGE

CASES

increase service life?

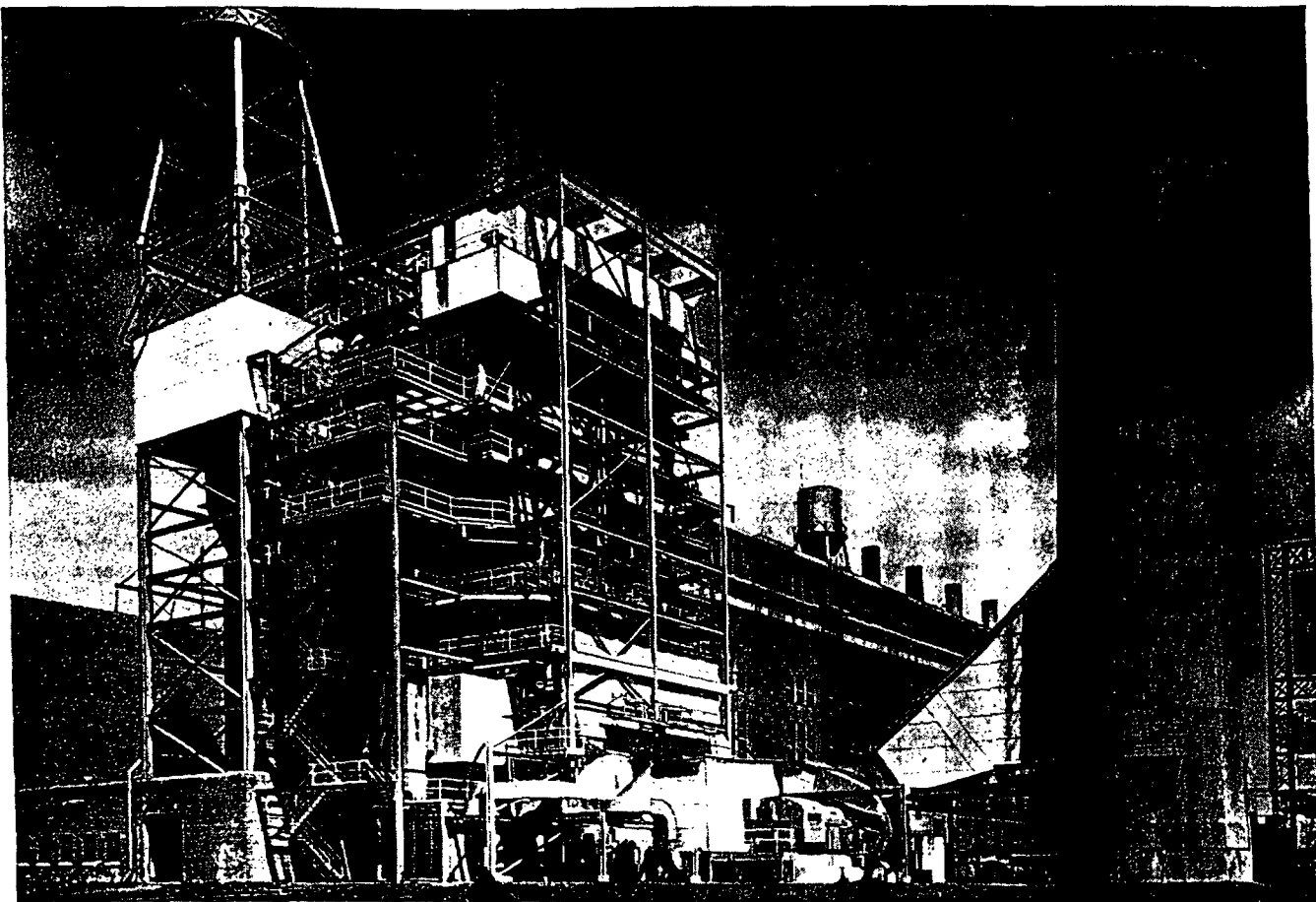
Duragauge casings add extra-long service life to Duragauges because they're available in three different materials: you can choose the case-material that stands up best in your application. You have a choice of *Alupalife*® — a special aluminum alloy; *Cast Iron*, rugged and durable; and *Phenol*, a tough, rigid plastic.

Duragauge casings are dust and moistureproof. Chrome-plated, die-cast retaining rings keep the dial cover glass tightly in position and prevent the entrance of dirt or harmful fumes. Depending upon material, casings are Bonderized and the ring is Anodized and dichromate sealed for protection from corrosion.

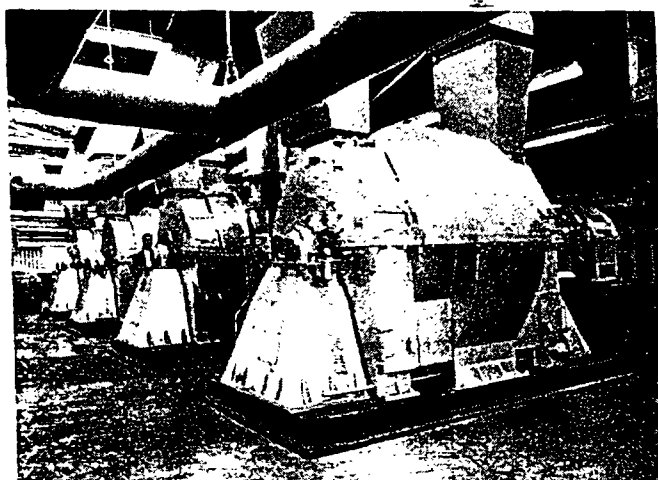
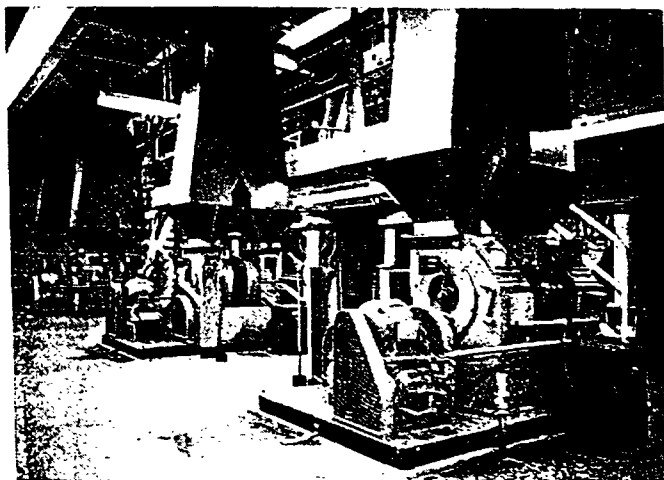
For added protection, there is the Maxisafe Duragauge casing with a solid front — a special design for maximum safety and ease of maintenance. Duragauges are easy to service since Duragauge casings are constructed so that the entire system — socket, tube, tip, movement, dial and pointer — can easily be removed as a unit.

Lifetime Duragauge cases are available for numerous dial sizes. You have a choice of Bourdon tube materials, a wide range of pressures, and a movement made completely of stainless steel or stainless steel with nylon bearings and pinion gear.

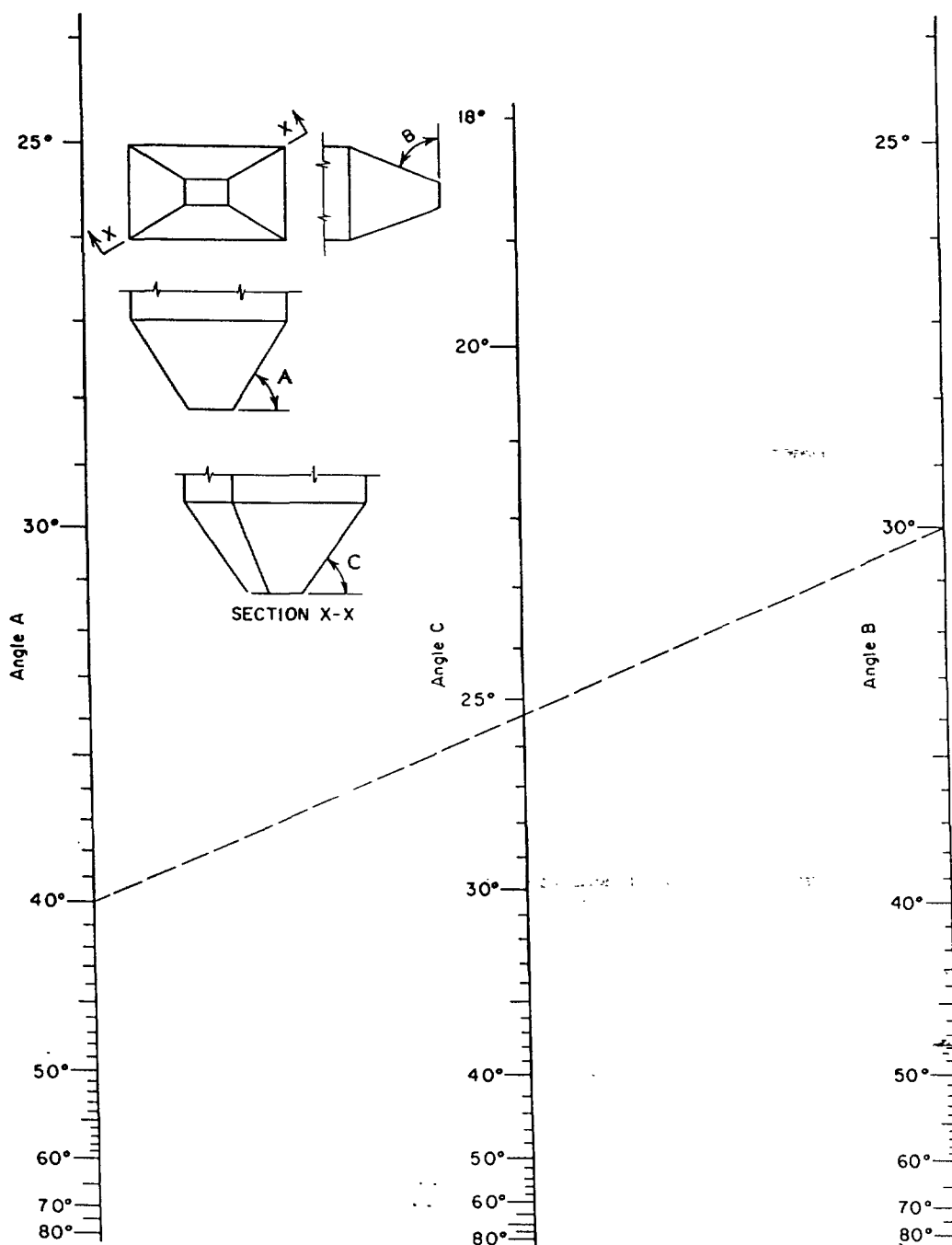
Whatever case material and gauge system is best for your needs, you can rely on the Ashcroft Duragauge for highest sustained accuracy and long service life.



Actual unretouched burner elevation view inside Picway's Riley Furnace after 80,000 tons of low ash fusion temperature coals had been fired. Low incidence of slag formation around burners is due to the Riley design of water-cooled burner throats.



Eight Riley Coal Feeders at Picway Station accurately meter the coal to four Riley Duplex Pulverizers. Riley Pulverizers are distinguished for their quiet, smooth, vibrationless operation, their ability to respond to rapid load swings, and their ability to handle wet coals. Tungsten Carbide faced pulverizing elements assure sustained high fineness and low maintenance.



Valley slopes for bin hoppers

► SLOPES of hopper bottoms must be steeper than the angle of repose of the material stored. The limiting angle is the valley angle, the angle between the joints of the sloped bottoms and the horizontal. angle C . Knowing the angles of the hopper bottoms, A and B , we then can figure C by the formula:

$$\cot^2 C = \cot^2 A + \cot^2 B.$$

This chart eliminates the need of referring to trig tables. Simply spot A and B on the scales above; draw a straight line between the two; intersection of the line with middle scale gives the corresponding value of C .

A DI LORENZO Brooklyn, N. Y.