

Double Drainage Capacity
with **Clark Duo-Step Traps**

Engineers know that the effective drainage of condensate from steam lines is a matter of trap capacity. How much condensate can a steam trap of a given size drain in a specific time? The more it can drain, the more efficient the trap.

Many tests over a period of years prove that Clark Duo-Step Steam Traps, using the patented double fulcrum principle, can drain *twice* the condensate of ordinary traps.

So why not give Clark Duo-Step Traps a trial on your steam lines and discover for yourself their money-saving features. Phone, write or wire for information.

CLARK "701"-D (DUO-STEP) TRAP. A forged steel trap for pressures up to 300 P.S.I. and temperatures of 750°F. Equipped with "double-drainage" Duo-Step leverage and Venting, Clark-loy seats and discs. Pipe sizes 1/2" or 3/4".

SERIES "80"-D (DUO-STEP) TRAPS. Cast steel construction for pressures up to 250 P.S.I. and temperatures to 450°F. Equipped with Duo-Step leverage and Venting, Clark-loy seats and discs. Pipe sizes from 1/2" to 3".

"Y" SELF-CLEANING STRAINERS. Remove dirt, scale and grit from steam, fluid and gas lines. Sizes 1/2" to 3" I.P.S.

SERIES "40" INVERTED BUCKET TRAP. Choice of horizontal or vertical inlet or outlet. For pressures up to 150 P.S.I. "Clark-loy" guided disc and seat.

OPEN BUCKET STEAM TRAPS
CLARK
THE HOME OF DUO-STEP LEVERAGE
MANUFACTURING COMPANY
1830 EAST 38th STREET
CLEVELAND 14, OHIO
Distributors and Representatives to all major cities

More POWER NEWS

ther information; (4) Statements of nominee's title and company affiliation or address if retired; (5) Such other information and reference as may be considered by the Board of Home. Include also a citation, or brief statement usually not over 50 words, which summarizes the nominee's contribution.

Harry Spring
Opens Consulting Office

Harry M. Spring Jr., familiar to Powma readers for his many technical articles, has opened a consulting practice at 280 Pleasant St., Canton, Mass. Long known as an authority on boiler construction and operation, he specializes in design, analysis, metallurgy, metallography and special engineering problems in the power field. Spring is author of *Boiler Operation Guide and Pressure Vessels for Industry*.

Detroit Edison
Celebrates 50th Birthday

From its very beginnings in January 1903 to the present time Detroit Edison Co. has distinguished itself as a progressive force in the public utility industry. Many of its achievements have produced lasting benefits to the power field in general.

Some ten years after its founding Detroit Edison established the first research dept. within a public utility structure. That dept., now known as the Engineering Laboratory and Research Dept., has a long record of trail-blazing in the high pressure high temperature steam studies field. Notable among these accomplishments are many successful underfeed stoker experiments, a long run of pulverized fuel recommendations including suggested ways of using fly ash.

In addition the company has actively investigated new fuel sources. It is the vanguard in harnessing nuclear energy to the power plant, this last, March 14th.

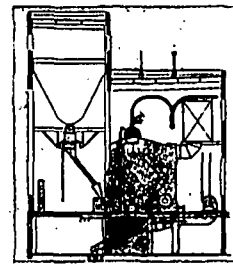
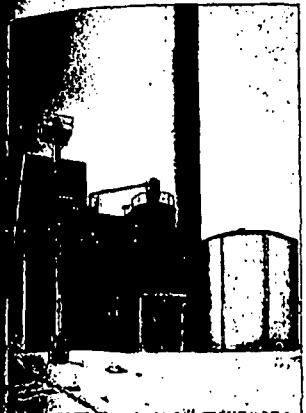
Combustion Conferences
for Power Engineers

Bituminous Coal Research, Inc., the national research agency of the bituminous coal industry, announced today that it will assist in arranging combustion conferences for groups of power

74.2% MORE STEAM PER DOLLAR-
that's what this modern coal installation gives us at Perfection Stove Co.!"

says George I. Chittenden, consulting engineer for the Perfection Stove Company.

Perfection's old installation, if operating today, would generate 1,382 lbs. of steam per hour per dollar. The new plant produces 2,373 lbs. of steam per hour per dollar. Here's proof of the economy and efficiency of bituminous coal burned with modern equipment.



This sectional drawing of the plant's boiler installation shows the coal bunker over the firing aisle. A weigh larry with dust-proof connection feeds coal to the stokers. The plant is clean and efficient—typical of the modern design that makes full use of coal's inherent advantages.

This view of Perfection Stove's new steam plant shows the coal elevator and ash silo. Coal is delivered through an under-track conveyor, lifted by elevator to storage. A pneumatic system carries ashes to the silo.

If you operate your own steam plant, you can't afford to ignore these few down-to-earth facts!

COAL in most places is today's lowest-cost fuel.

COAL resources in America are adequate for all needs—for hundreds of years to come.

COAL production in the U.S.A. is highly mechanized and by far the most efficient in the world.

COAL prices will therefore remain the most stable of all fuels.

COAL is the safest fuel to store and use.

COAL is the fuel that industry counts on more and more—for with modern combustion and handling equipment, the inherent advantages of well-prepared coal net even bigger savings.

● More and more consulting engineers are advising their clients that *bituminous* coal is the best buy for steam fuel. *Here's why:* Nearly everywhere coal yields more BTU's per dollar... modern combustion installations step up this inherent economy... up-to-date coal- and ash-handling systems cut labor costs to a minimum.

Tremendous reserves give coal a future dependability of supply no other fuel can offer. And to mine this coal, America has the world's most productive and efficient coal industry—making coal the one fuel most likely to remain reasonably stable in price.

If you're building or planning to modernize a steam plant, call in a competent consulting engineer. He'll show you how a modern coal installation can save you money and do a more efficient job, too!

BITUMINOUS COAL INSTITUTE
A Department of National Coal Association
WASHINGTON, D. C.

FOR HIGH EFFICIENCY • FOR LOW COST
YOU CAN COUNT ON COAL!