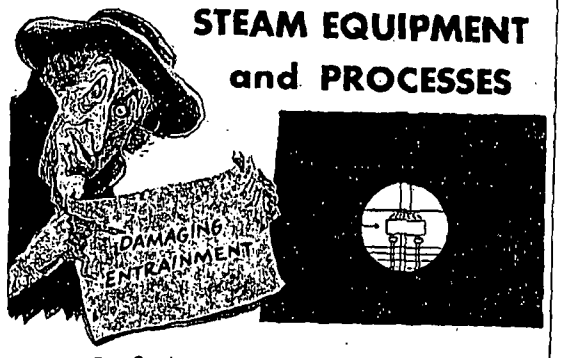
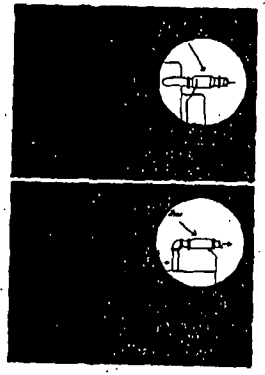
ELIMINATE THESE

VICIOUS ENEMIES of your STEAM EQUIPMENT and PROCESSES



WITH **Hi-eF PURIFIERS**



Slugs, entrained particles, and moisture can be as vicious an enemy as your steam generation and distribution system has ever seen. They can clog-up superheater tubes, play havoc with turbines, reciprocating engines, valves and instruments. Hi-eF Purifiers keep these costly trouble-makers out of steam. These filterless units embody a new design that results in a new high in steam purification efficiency. Hi-eF Purifiers quickly pay for themselves in boiler, superheater, turbine, reciprocating engine and feed water evaporator applications. Mail coupon for further details today.

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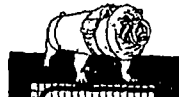

WATCHDOGS OF STEAM • AIR • GAS • VAPOR PIPELINES AND EQUIPMENT



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BY THE MAKERS OF SUPER-SILVERTOP STEAM TRAPS

More TECHNICAL BRIEFS

The burning bed of char, which ... ficiency of oxygen being admitted ... provides a reducing atmosphere ... reduction of the sodium sulfate ... ium sulfite. *APC Paper*, no num...

Directions for ordering papers ...

Preparation and Combustion ... plosion Pulverized Coal. *By C. C. ... Fredersdorff, Institute of Tech... nology, Chicago.*

A pilot unit comprising a ... flow nozzle-cyclonizer combination ... ating with a 75 psig compressed air ... ratio of 0.7 to 1.0 lb/lb, reduced ... single pass operation, a hammer ... pulverized stoker coal to a product ... lyzing up to 80% and above passing ... No. 525 U.S. Sieve. This two-stage ... tem operated at a considerably greater ... pulverizing efficiency than a single ... nozzle. It indicated, furthermore, ... flow nozzles up to ½ inch in diam... used in the pilot unit did not pulverize ... as efficiently as ¼-inch diameter nozzles ... employed in the laboratory scale studies.

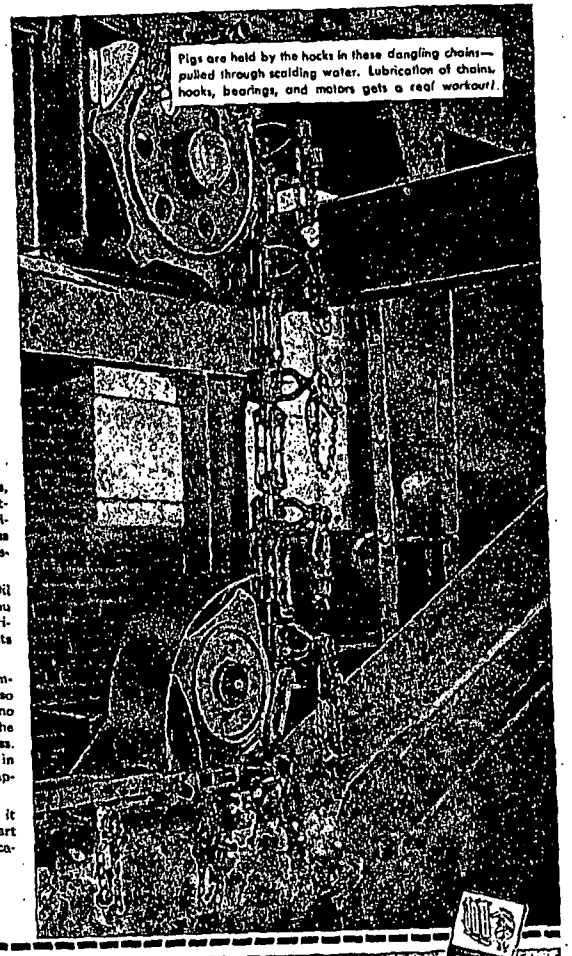
Combustion results were satisfactory ... with pulverized coal containing less than ... 1% plus 40 U.S. Sieve and up to 80% ... and above minus 325 U.S. Sieve material. Steam generation efficiencies were ... obtained comparable to normal pulverized coal firing practice.

This explosive pulverizer-cyclonizer ... system utilizes a combination of expansive action of a compressed gas (air) ... flowing through a nozzle plus frictional ... effect induced in a vortex chamber or ... cyclonizer to maintain a high degree of ... pulverization. This represents a continuous operation with no moving parts ... required for the actual pulverization. ... However, auxiliary equipment is required such as: (1) a hammermill to ... reduce lump coal to a size that can be ... accommodated in a flow nozzle, (2) a ... system of air classifiers to reject oversize ... particles upstream and downstream in ... the pulverization system, and (3) a pressure feeding system to deliver the coal ... charge to the compressed air stream. ... The coal device employed in this investigation, which consists of a continuous ... chain pressure conveyor having pneumatic seals at the discharge end, was ... unsatisfactory for prolonged operation ... due primarily to heavy wear causing ... leakage and irregularities in the coal ... feed rate. An alternate method for the ... pressure feeding of pulverized coal ... might consist of a two-stage pressure ... tank operating intermittently.

Based on the requirements of 75 psig ... compressed air as the principal operating cost of the pulverizing step and ... assuming an air compression cost of 1...

POCO HTB GREASE hangs on through HEAT and WET!

Proves usefulness over wide range of temperature and moisture conditions.



In meat packing plants, as in many others, POCO HTB Grease is widely used with outstanding success as a general purpose lubricant. High film strength and adhesiveness over a wide range of temperature and moisture conditions make this possible.

POCO HTB is one of a group of Pure Oil multi-purpose industrial lubricants that you can turn to advantage to simplify your lubrication practice—and reduce your lubricants inventory.

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