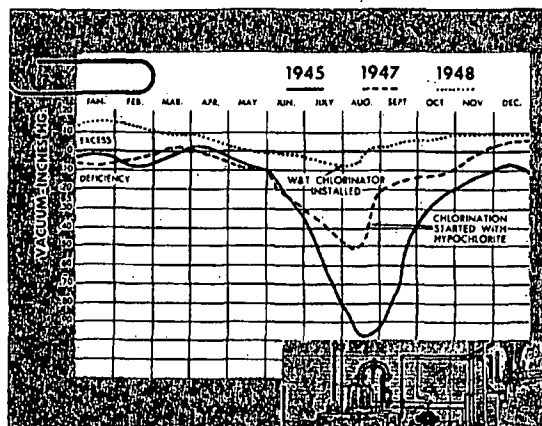




PEAK CONDENSER PERFORMANCE...

... with W&T CHLORINATION

Condenser operating curves from the Greenidge Station of the New York State Electric and Gas Corporation, designed by Gilbert Associates, Inc., show clearly the effectiveness of slime control with chlorination and Wallace & Tiernan Equipment.

The 1945 curves record typical operation without chlorination—showing the serious drop in condenser vacuum during the warm water months. Early in 1947 chlorination was started by feeding hypochlorite, but not until August of that year was the dosage increased sufficiently to give appreciable slime control. Immediate improvement in condenser performance was evident.

The 1948 curve shows a full

year of chlorination. The feeding of hypochlorite — although giving slime control — proved both expensive and difficult. To overcome these difficulties, a W&T Air Operated Master Chlorinator for feeding gaseous chlorine was installed in August 1948. Further improvement in performance was noticed as soon as the chlorinator was installed. After the installation, condenser vacuum even during the summer dropped only about 1/10 inch Hg. below "bogey" compared to a full inch loss during 1945.

You can put these benefits of Chlorination by W&T to work in your plant. Write today for additional information or to arrange a visit with your W&T Representative.

WALLACE & TIERNAN PRODUCTS, INC.

CHLORINE AND CHEMICAL CONTROL EQUIPMENT
Bellefonte 9, New Jersey • Represented in Principal Cities

MARMADUKE

and walked majestically out of the room, whistling as happily as the Chief and everyone else open-mouthed, staring into the air for a peek at the anvil. But he was seen. And it stayed exactly where it landed until that boiler was weeks later in port.

After that, Matt Feeley moaned about dirty fires again. Whatever Marmaduke left him, Marmaduke collected plenty of money when he signed off in New York.

DEAERATING HEATER

duces a low steam flow through the heater and makes good deaerating operation somewhat dependent on good vent condenser operation. Despite an added cost of \$15,000 to \$25,000 for steam Scheme A won out because of assurance of good heater operation all load, water and steam conditions. Further, with a reasonably 24-hr operating load, scaling was relatively low in the vent condenser. External tubular designs were used for both deaerator and hot-process heaters with a bypass, as shown in Fig. 3. Vent valve on the deaerating-heater condenser stays closed normally the thoroughfare system, and all condensable gases vent from the process softener.

Spray-type deaerator internally sealed to the steel-mill operating cause: (1) Entering water was alkalinity, although high in pH, contained less than 1 ppm of total iron. (2) Designers and operators enjoyed considerable success with class heater in the past. (3) Initial costs run about 10% less.

When it comes to the question of storage, about a 10-minute 166,667 lb of deaerated water, stored in this deaerator, Fig. 3, the lip of the overflow. Hot condensate as high a flow rate as 250,000 lb/hr, can flow into the heater for deaeration. The hot-process softener above the deaerator, Fig. 4, stores an additional 30-minute, or 500,000 lb of treated water.

There was still one other special service for deaerated water was desuperheating. As Fig. 3 shows, a very sizable process load exists at 100 psi steam and it is drawn from the boiler output heater. It was decided that pure condensate could be the desuperheating best.

Deaerated, sealtite-treated water

Reverse the Wear...

CAST
IRON

VANDERLOY M

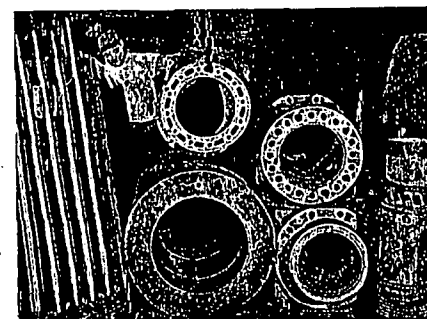
PORUS-KROME

VAN DER HORST

Porus-Krome is a dense, hard, wear and corrosion-resistant chromium, produced by the Van der Horst Corporation of America, and which gives working surfaces an infinite number of tiny oil-retaining reservoirs for perfected lubrication.

U. S. PATENTS
2,048,578, 2,314,604 and 2,412,698

VAN DER HORST CORPORATION • OLEAN, N. Y.



Why bother to have your liners oversized? Reverse the effects of wear — have your liners Van der Horst processed!

With VANDERLOY M we can plate back any liner you have to original size — and with PORUS-KROME* we can keep it that way.

A PORUS-KROME liner outwears as many as four unprocessed liners. Meantime, it uses less lube and fuel oil, delivers more power and is much easier on rings.

When such liners finally need replacing, simply slip in another set of Van der Horst RE-STANDARD-Sized liners — and send the worn ones back to us for renewal again.

Even liners you'd normally scrap are restored to original dimensions and each renewal pays for itself — several times over.

Of course the real profit comes when you eliminate the cost of stocking oversize parts — simply by having Van der Horst "reverse the wear" on all your liners. Let us show you how much can be saved by making this your standard practice.

W32-30-