

how to
select
design
purchase
and install...

floor gratings

send for new
free catalog
tells how
to buy
floor
gratings



BORDEN METAL PRODUCTS CO.

Green Lane, Elizabeth, N. J.

Gentlemen:

Please send me Borden Catalog No. AT-253.

name.....

co. name.....

st. and no.....

city, state.....
See our Catalog in Stores

190

More TECHNICAL BRIEFS

Begins on page 150

ural water supplies of that locality. Because of the nature of turpene it was reasoned that treatment with sodium nitrate would solve the problem. Dissolved solids would be held to a top of 1500 ppm through blowdown. Results were good. The author feels that this treatment or similar oxidizing agents will curb the feedwater headaches that resinous materials will otherwise produce. *ESWP Paper. No number.*

Oil Removal From Condensate by Diamite Filtration. By C R Bell, Johns Manville Co.

Oil in boiler feedwater is widely recognized as a potential danger. The older boilers suffered from foaming, priming and some loss of fuel economy. Newer higher rated equipment, though, can find the oil carbonizing and this could produce tube-bagging or burn-out.

The Maritime Commission early in World War II substituted Uniflow engines for turbines for the main propulsion of several ships, namely the CVE's, LSD's and deep sea tugs of the Navy. A study was made of the various filters suitable for oil removal. Two diamite filters, absorber and stripper types, were eventually chosen.

The absorber removes the oil in a single process and the stripper uses a thin layer of diamite to break any oil emulsion and then lets a mechanical separator remove the coalesced oil. But the Maritime Commission found the absorber or body feed system to be the most effective.

Oil removal by this means is effected over a wide range of temperatures (preferred 120-180 F) with costs considered reasonable by the author. *ESWP Paper. No number.*

Effect of Operating Pressure on Carbon Dioxide Content of Steam. By J McGuire, WH&L Reiss Co; and R E Winston, Day & Zimmerman.

Straub and Larson back in 1932 showed that decomposition of the carbonate and bicarbonate salts normally found in natural water for feedwater use was a function of operating pressures between the range of 150-1500 psi. The author's investigation shows that the same condition holds, only more so, for the pressure range from 15-100 psi. As an example the rate of decomposition at 15 psi (250 F) is only half that at 100 psi (338 F).

The authors summarize their data in graphs that indicate the effect of both

Directions for ordering papers on p 152

He's "CORN"

...but it's the best way to CLEAN motor generators, turbine



PANGBORN AC-4 Blast Machine

- CUTS DOWN-TIME
- CLEANS WITHOUT SOLVENTS
- ELIMINATES DRYING
- ELIMINATES TOXIC AND EXPLOSIVE DANGERS

THE new Pangborn AC-4 Blast Machine cleans motors, generators, turbines faster... cleaner... and you use them sooner because there's no waiting for parts to dry. In fact, dangerous solvents that can lead to explosive action, and toxic poisoning are completely eliminated!

The AC-4 uses soft, 20-mesh corn grits to rapidly remove dirt, grease, paint, etc., in one-third the time, and 90% less cost than old-fashioned methods. GET FULL DETAILS write, telling us what you clean. PANGBORN CORP., 90 Pangborn Boulevard, Hagerstown, Md.

Look to Pangborn for the latest developments in Blast Cleaning and Dust Control equipment

Pangborn

BLAST CLEANS CHEAPER with the right equipment for every job

POWER • JANUARY

"Tycol Aturbrio Oils have high oxidation resistance... cut turbine shut-downs"



Tycol Aturbrio Oils are unexcelled for long turbine life. They provide resistance to oxidation and protect against corrosion.

Further, Aturbrio Oils have excellent demulsibility properties. Turbine Operators using Aturbrio report minimum wear... utmost turbine efficiency... greatly decreased maintenance costs.

For complete information, call or write the nearest Tide Water Associated Office.

SEND FOR A FREE COPY OF "TIDE WATER ASSOCIATED LUBRICANIA"

POWER • JANUARY 1953



Boston • Charlotte, N. C. • Pittsburgh
Philadelphia • Chicago • Detroit
Tulsa • Cleveland • San Francisco



191