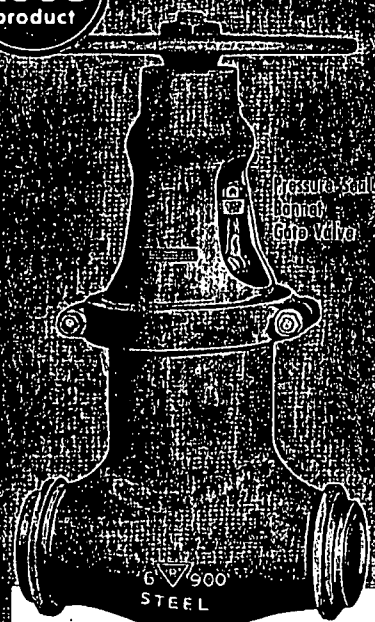


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More TECHNICAL BRIEFS

anion exchangers can be operated under pressure.

A case history, the Reading High Alkalinity Control operating by ESWP Paper. No number.

Corrosion and Its Control. By Wilkes and R. G. Dalbke, DuPont Chemical Co.

Water treatment procedures to prevent scale, corrosion, bacterial growth and wood deterioration must be related to give protection through cooling system. Some water treatment methods that solve certain problems contribute to corrosion in the absence of careful application and regulation. What's more, procedures for treating one type of cooling system are totally unsuited in others. For closed recirculating systems, methods not economically feasible for open recirculating designs and finally out of the question for once-through cooling.

The chief cause of corrosion is dissolved oxygen present in the water. Reaction of this dissolved oxygen with metals accelerates with temperature rise, producing pits and depressing the metal.

The authors go on to discuss the role of the metallic ions as well as the chloride and sulfate ions in the basic corrosion control. The application of the Langelier Index and the effect of galvanic action, impingement attacks, cavitation come in for consideration.

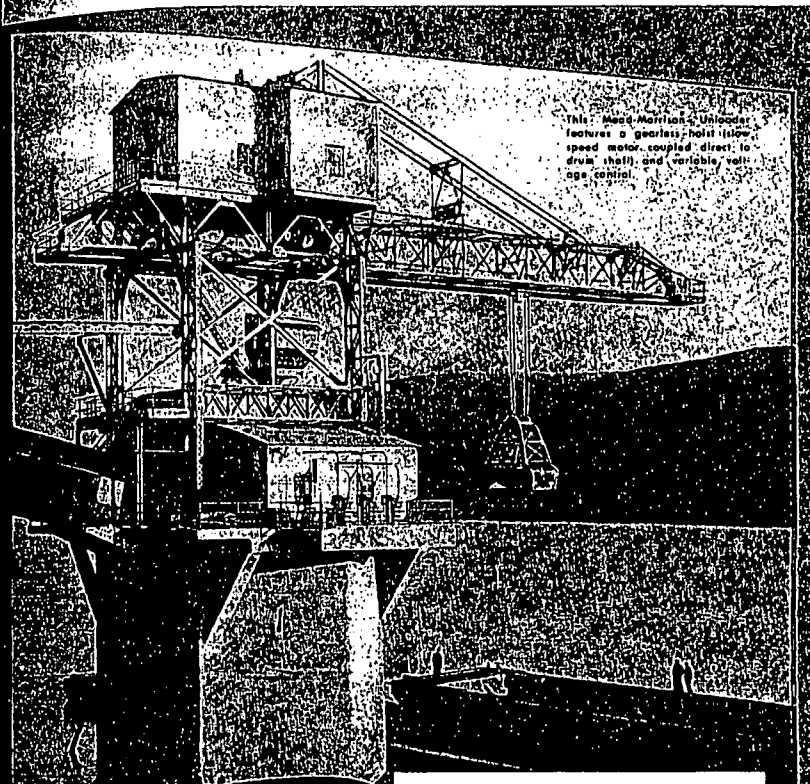
Several of the more widely used treatments are advanced and their strengths and weaknesses are noted. ESWP Paper. No number.

Control of Resinous Materials in Pressure Boiler Feedwater. By Andrews, Bird-Archer Co.

Organics in natural surface water can color boiler water to the point of testing and routine control is difficult. Some organics bring on sludging and troublesome scale characteristics in the region discussed by the author. The northern part of Ontario, in many lumbering pulp and paper mills—these problems are highly specific.

Intercrystalline corrosion is rampant in boilers in this region. But in 1946 tests showed the cause was not this at all. Actually it was transcrystalline fracture brought about by stress of a thermal nature. There was a hydrocarbon deposit, some of turpene, an organic found in the

Directions for ordering papers on page 189.



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