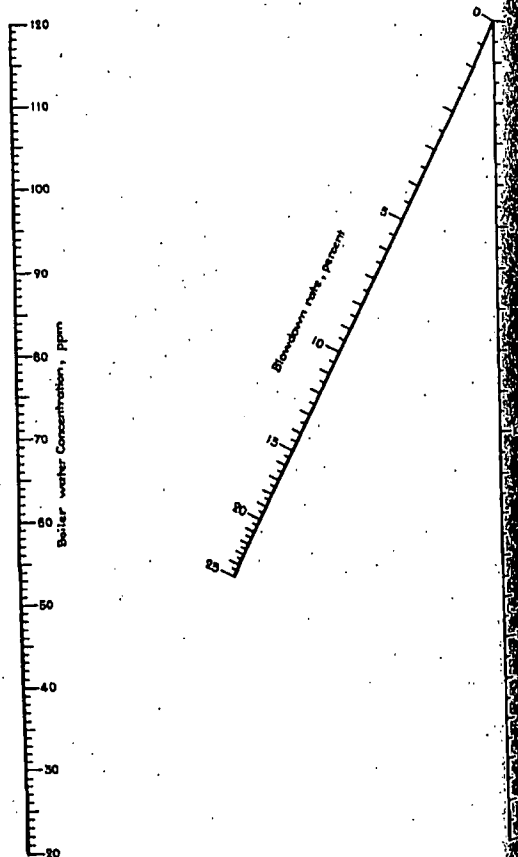


Calculate Continuous Blowdown Rate From Chloride Concentrations

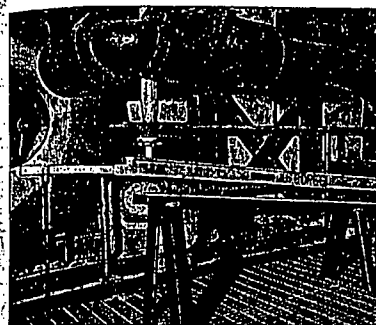
▶ WHERE CONTINUOUS BOILER BLOWDOWN must be used to keep the dissolved solids within specified limits, the smaller blowdown flow must carry out the same amount of impurities carried in by the feedwater entering the drum. The chloride concentrations in feedwater and boiler water can be used to calculate the percentage rate of blowdown needed to maintain constant boilerwater concentration.

Chloride concentrations can be determined by titrating the samples with silver nitrate solutions, using potassium chromate as an indicator. To find the blowdown rate as a percent of feedwater flow, locate the boiler-water and feedwater concentrations on their respective scales in the nomogram, lay a straight edge between these two readings, and read the blowdown rate at its intersection with the center inclined scale.

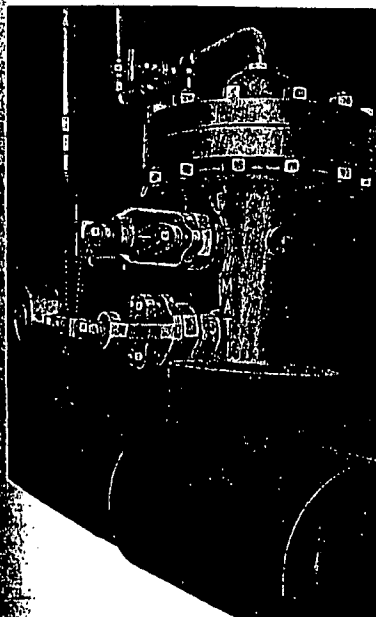
By John F Hyam



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The water-level element is the COPES Thermostat which is rugged, reliable and accurate in service



Direct-operated COPES Flowmatic Valve has the steam-flow element built integral with the bonnet

FLOWMATIC

at
MUNICIPAL POWER PLANT
MONROE, LOUISIANA

Holds
BOILER WATER LEVEL
WITHIN *Plus or Minus 1/2* INCH

COPES Boiler Feed Water Regulators had been in service since 1924 at the Municipal Power Plant, Monroe, Louisiana. They had required no more than routine attention by plant personnel. So, when the 400-psi extension was planned, it was only natural to select the modern two-element COPES Flowmatic for the gas-fired Babcock & Wilcox boiler. Results have been all that could be desired. Water level is held within plus-or-minus one-half inch. Write for Performance Report 473 which tells the story.

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