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Begins on page

sure, constant temperature, and continuous agitation) until phase equilibrium was attained, (5) fastened in vertical position until the vapor and liquid phases separated.

Oxygen shows unusually high solubility at 32 F. The solubility decreases with the increasing temperature in the range from 32 to 200 F and then increases with increasing temperature.

At room temperature where the solubility is small the fugacity of water in the liquid phase may be calculated from Raoult's law. If the pressure change is small then Henry's law applies to the dissolved gas. When solubilities of gases are measured at high pressures then the influence of pressure cannot be disregarded. Consequently the usual expression of Henry's law must be corrected. Knowledge of partial molal volume of the solved gas is needed to make this correction and these data for oxygen are not available. *ASME Paper No. 53-S-*

More POWER NEWS

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about 10 psi from the flow stations. It will use about 10% of this gas as fuel and will pump the remainder to the wells at a pressure approaching 200 psi.

Turbines were chosen for this job because their low vibration permits simplification in the design of the mounting platforms. All of the two-shaft, simple-cycle units, rated at 6000 hp each, should be in operation by July 195

Four More Pump Motors Go To Coulee Irrigation Service

Four additional 65,000-hp synchronous motors went into irrigation service on May 19 at Grand Coulee Dam. Built by Westinghouse Electric Corp, they are identical to the first two motor and centrifugal pump units installed in 195 These six motors are the largest ever put into service.

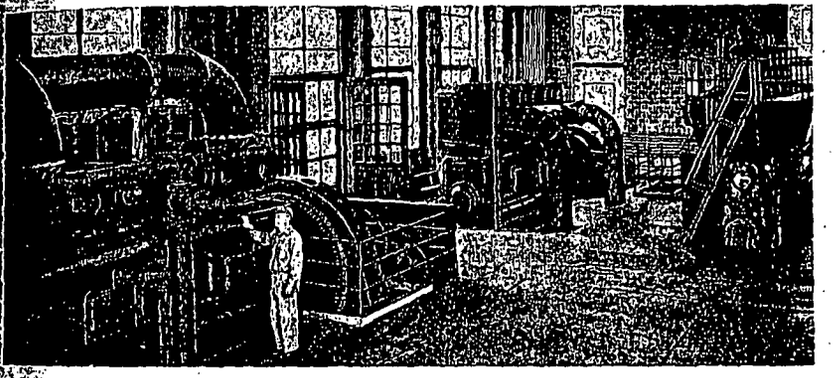
Each motor drives a pump rated 1350 cfs under a 310-ft head. Each lifts more than a billion gallons of water per day into a canal 280 ft above the storage reservoir behind the dam. The water is lifted through 13-ft conduits 800 ft long.

The six motors now installed receive power at 13,800 v from three of the eighteen 108,000-kw generators located at the dam. Two motors receive power directly from each generator.

Federal officials hope to install six more similar pump-motor units to make possible the irrigation of a million acres

H. L. Ostness, Chief Engineer, River Falls Municipal Utility, Wisconsin, says...

"Sticking Rings are no problem in this Plant"



Mr. Ostness, as chief engineer of one of the oldest Municipal Power Plants in Wisconsin, knows diesels — *knows how to get the most out of them.* Mr. Ostness recently wrote, "We have used Sinclair Lubricants for over fifteen years very successfully. GASCON® and RUBILENE® H.D. *have been doing an* outstanding job in our diesels. Stuck rings is a trouble we know nothing about — engine wear is at an absolute *minimum. With results like these,* we'd recommend Sinclair Lubricants any time."

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