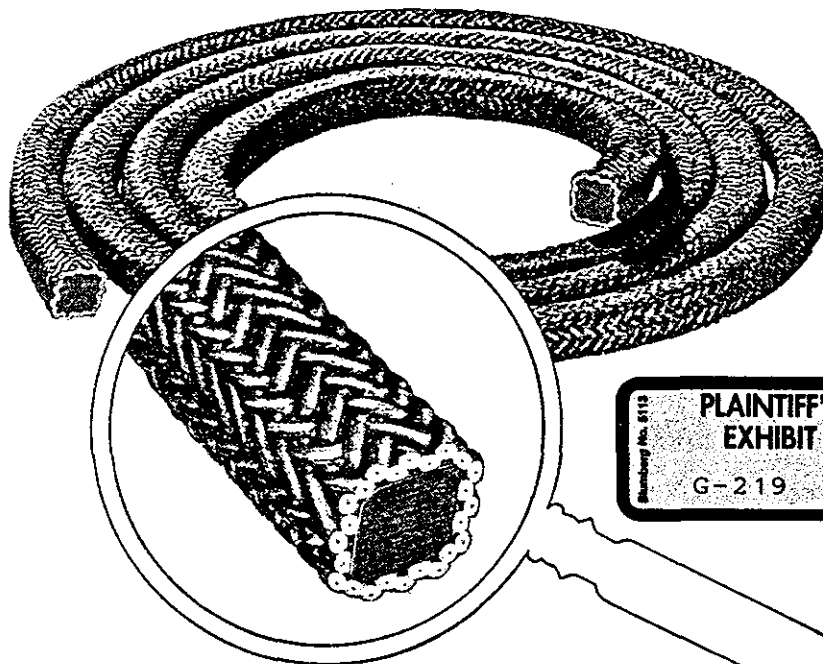


# RUGGED...

## for superheated pressures



# BELMONT 4040

Here is a steam valve packing that performs well on superheated steam temperatures as high as 800° F.

Inconel wire-inserted asbestos is braided over a non-metallic plastic core to combine strength for high pressures with compressibility for good sealing characteristics. Supplied square in cross section, in sizes 3/8" and up.

Ask your U.S. Gasket-Belmont Packing Distributor or write for Catalog No. 56.



**Belmont Packing & Rubber Co.**

Butler & Sepviva Streets

Philadelphia 37, Pennsylvania

## U.S. GASKET • BELMONT PACKING

## TURBID WATER

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gallons—cutting costs by about 75%. He fully expects the plant to pay itself in from four to five years.

Comparative costs are hard to assess at this point because of the company's vastly increased use of water since 1952. Now, with increased production and processing, overall use of water has increased from 9 to 11 million Imperial gallons daily. However, demand on the city supply has been cut from 4.5 to 3 million Imperial gallons in the same period. Thus, the direct reduction in city-water charges is about \$100,000 annually, including the difference in cost if city water had been purchased to take care of the additional demand.

It has been estimated that the total cost of the water-treating project was \$575,000, of which \$100,000 represents engineering, chemical feeders, purification and control equipment. At present, the purification system treats an average of 8 million gallons of Hamilton Bay water daily. Average total cost of operating the equipment is \$323 per day, or \$0.04 per 1000 Imperial gallons (1200 U.S. gallons). A realistic figure of the yearly maintenance cost is not available since the plant has been operating for such a short period.

The four chemical feeders distribute almost three tons of chemicals per day and average dosages represent 1500 lb of lime, 2700 lb of clay, and 1400 lb of alum and occasionally some sulfuric acid. With these chemicals added to the turbid supply, the raw water is thoroughly mixed by baffles before entering the precipitators, at a valve-controlled rate, for coagulation and filtration. This controlled flow maintains water at the proper level.

Height of the sludge blanket in the units is automatically controlled by photoelectric cells operated by a beam of light shining through a continuous thin stream of water drawn from a pre-selected level in the upflow sludge filter compartment.

This treatment reduces turbidity of the rather murky and highly-turbid raw water to an average of 5 ppm, making it entirely suitable for industrial utilization. It also brings the pH of the raw water from an acid condition of 5.0 to 6.0 to a slightly alkaline condition of 7.5.

Plans for construction of a multimillion-dollar distribution transformer plant in Athens, Ga., were announced in Pittsburgh, Pa., by Westinghouse Electric Corp. Gordon C. Hurlburt, manager of the distribution transformer department at Sharon, Pa., has been named manager of the new plant.