

KPUD Completes Glenwood Water Project

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Klickitat PUD completed a major renovation to the Glenwood

water supply system in October. The system is now in compliance with the Washington State Department of Health's requirement to increase the safety of the water supply.

At the McCumber Springs site, wire mesh from the spring boxes was removed and the boxes enclosed to eliminate the possibility of outside influences disrupting the purity of the spring water.

Overflow protective devices were added to prevent birds or aquatic creatures from entering the spring box tanks. These "duckbill" valves open just enough to allow water out. The valves close tighter when the water volume decreases.

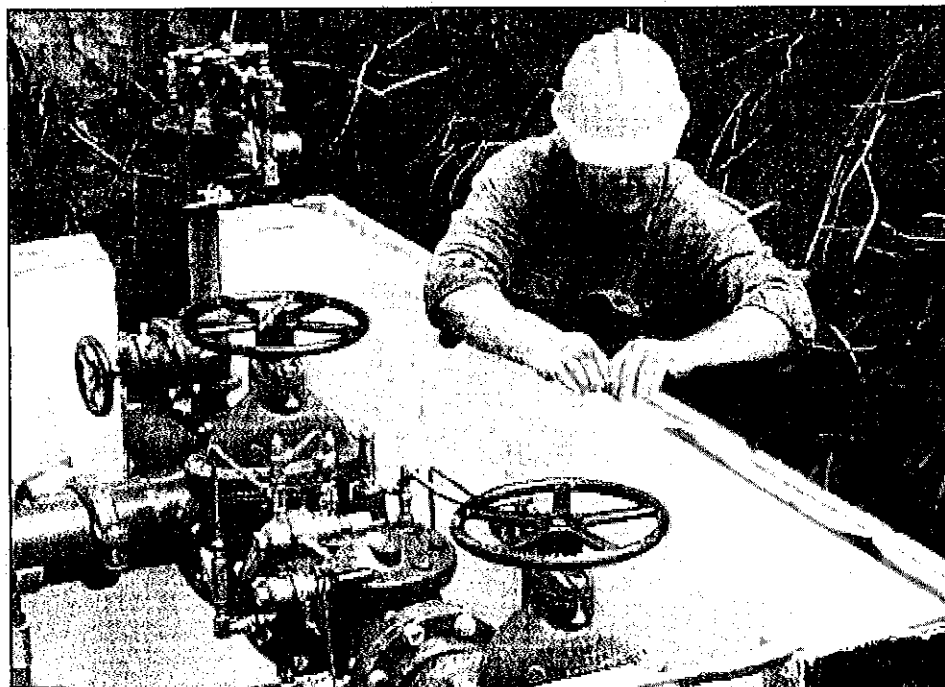
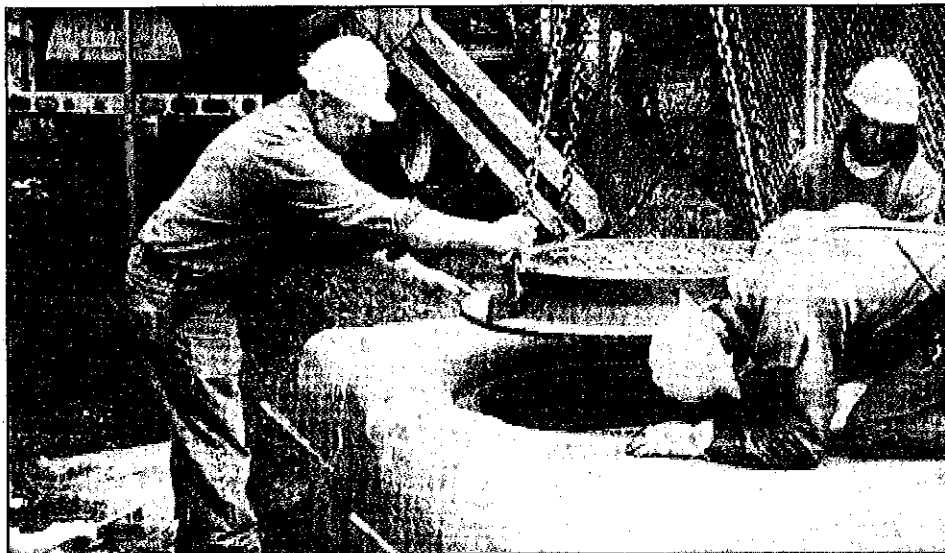
A new chlorine station also was added to the Glenwood system. Included is a hydrogenerator that provides power by using the head difference generated between two pressure-reducing valves. It produces enough electricity to operate the flow meter installed at the reservoir. This meter tracks both flow and total consumption.

The chlorinator also can be run using the same head difference, because the flow causes a suction effect in a specialized piping sequence. This allows the operator to vary the flow of the chlorine into the reservoir.

Chlorine tablets—which are slowly dissolved in a pipe—are used during winter, requiring less liquid bleach to be carried to the site.

The first phase of the new chlorination building is designed for year-around protection of the equipment and to ensure accessibility during inclement weather.

The Glenwood water system renovation project was completed by the Klickitat PUD water/wastewater department crew, with the cooperation of the Department of Natural Resources, the Department of Ecology, the Department of Fish and Wildlife, Yakima County, the Yakama Tribe and the community of Glenwood. ■



Top, from left, Larry Riches, John Moore and Howard Sinor place covers on the vaults. Above, Larry Riches, job assistance program trainee, works on one of the two newly installed pressure-reducing vaults.