

TID Installs Automatic System

Telephone Line Used To Get Information On Water, Set Level Of Operating Gates

The Tulelake Irrigation District has installed a remote control system at its diversion dam and automatic control systems at the canal

checks, according to a recent announcement.

The work accomplished to date is the first phase of an overall automation program adopted by the district's board of directors and designed to improve water service, operating efficiency and to reduce structure operating costs.

A remote control system is used to control water inflow in the J canal at the Lower Lost River diversion dam, located three miles south of Merrill. The system is operated over the Columbia Utilities telephone line. The district receives information or moves the motorized gates at the dam located seven miles from district headquarters by first dialing the telephone at the dam. This ring actuates the telephone answering relay which automatically answers the ring and completes the circuit to the remote equipment. Power to the remote unit at the office is then turned on sending an audible steady tone across the phone lines which is picked up by a tone receiver at the dam. Through the use of three tone channels (three tone transmitters generating and transmitting tones and three tone receivers operating at different frequencies) it is possible to read water gate level information and to open or close the gates. When the operation is finished this system automatically hangs itself up ready to answer the next call.

To make this system operate it was also necessary to mechanize the existing gate hoists with three one half horsepower gearmotors with chain and sprocket drives, three safety limit switches, a single magnetic reversing motor, starter and miscellaneous wiring.

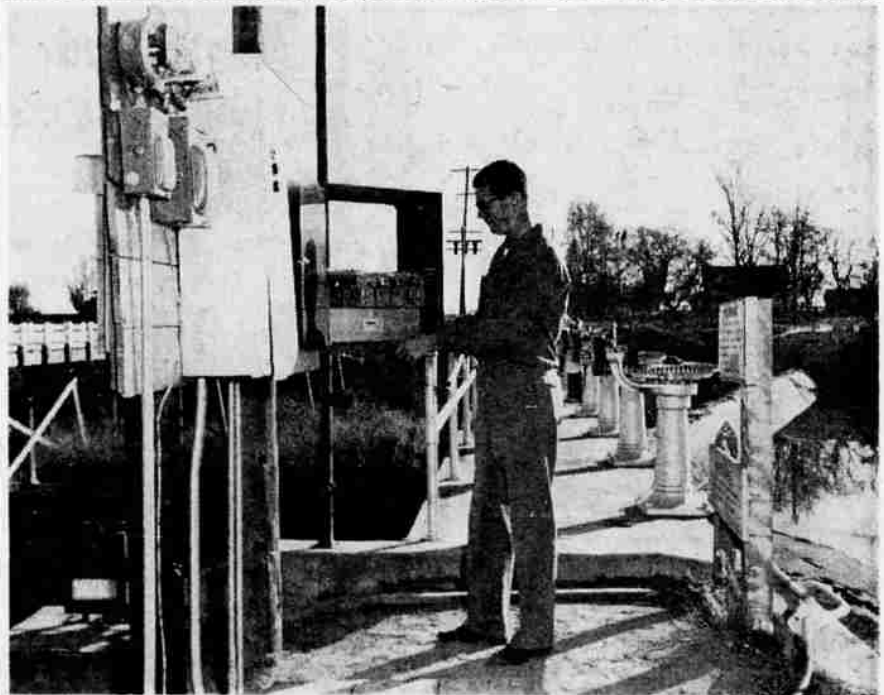
The automatic checks installed in the district's J canal just downstream from the diversion dam are employed to keep a constant water level up stream from the check providing a steady water delivery to the water users above the check and to the lateral canals feeding off the J canal. The motorized gates simply automatically move upward if water level is too high or downward if water level is too low. This eliminates water fluctuation in the canal.

The hand operated gates on the checks first were electrically controlled. This was done with the installation of a quarter horse gearmotor in a central pier between two radial gates, driving both gates in the same direction. By moving the gates at slow speeds the chances of a gate "hunting" (constantly seeking a position) were substantially eliminated. The district used floatless electrode type control switches located immediately above the check in a stilling well set up to keep the water level above the check within one inch of where it is set. Rotary limit switches were used to protect the gear train.

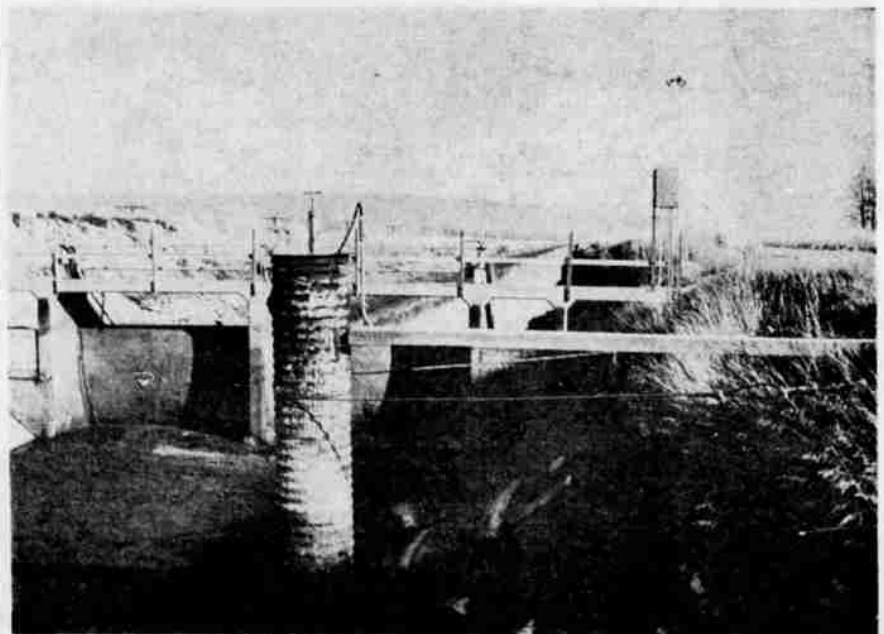
Irrigation District Manager M.K. Strantz and his assistant, Edwin V. Lance, designed both systems of control. Those connected with the operation of the remote and the automatic system have found them to be a simple and reliable system. It has also proven easy to maintain.



Information is gathered by phone, gates moved by same medium.



The control panel at the dam is easy to maintain.



Extensive wiring was a part of the new system at the district's dam.

88-Year-Old Gal Takes New Course

OREGON STATE COLLEGE — An 88-year-old woman who is interested in "keeping up with the marvelous changes in America" is taking a graduate course in home economics this fall at Oregon State College.

She is Mrs. Winifred Case Knapp, 807 of Corvallis, who in 1920 was the first woman ever to receive a master's degree in home economics from University of Minnesota.

The course she is taking is "Recent Advances in Foods."

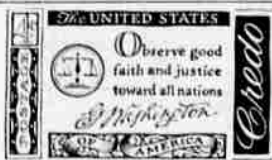
Next quarter or in the spring, she plans to take some advanced work in weaving. Mrs. Knapp has a small loom in her apartment and she makes some of her own dresses and jackets. She earlier took some classwork in weaving in 1953.

The foods course this fall is just "for my own edification," she noted. "One of the rewards of living is watching change and progress."

Mrs. Knapp uses a cane to help get around the campus but is regularly among the first students to arrive in the classroom each Monday, Wednesday and Saturday at 9 a.m.

OSC's school of home economics is observing its 70th anniversary this fall. Interestingly enough, the difference in age between Mrs. Knapp and of the 18-year-old freshmen coeds who walk the halls with her is that 70 years.

A widow, Mrs. Knapp lives alone in a small apartment near the campus. She chooses to live alone because "I like to be independent."



"CREDO" STAMP — This is the first of the four-cent "credo" stamps. It features the words of George Washington. The stamp, printed in red and blue on white, will be issued in January, 1960, at Mount Vernon, Va. The initial six of this series will include words by Thomas Jefferson, Benjamin Franklin, Patrick Henry, Francis Scott Key and Abraham Lincoln.

THE COVER

It was fall cleanup time when Herald and News photo artist Don Kettler snapped this picture of Allen Walker, son of Mr. and Mrs. Stephen Walker, 608 North Sixth, busy at his chores. It seems that no matter where you live there are always these little cleanup tasks to be performed.