

CROSS TALK

QUARTERLY BULLETIN

FOUNDATION FOR CROSS-CONNECTION CONTROL RESEARCH
UNIVERSITY OF SOUTHERN CALIFORNIA
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New Design Passes

The first new design of a backflow prevention device that has been submitted for Laboratory evaluation in quite a number of years was submitted last fall and the first of this month successfully passed the full series of tests in the laboratory of the Foundation. This unit, designed by the Hersey Division of the Hersey-Sparling Meter Company has been in the process of development for a number of years. It is known as the BEECO Model # 14; and, so far only the one-inch size has been submitted for Laboratory evaluation.

But, with the successful passage of the laboratory evaluation of the one-inch design it is anticipated that the Dedham plant will soon develop other sizes of this model of device.

The characteristics of this new unit may be summarized by saying that the two spring loaded swing checks and the "zone" pressure relief valve are all contained in a single bronze casting. The swing checks are of a unique spring loaded design and are located at an angle to the axis of flow so that the valve assembly is easy to remove and service; but, so that the

angularity does not produce an excessive pressure loss. The relief valve is of the spring loaded balanced diaphragm type with all of the control piping internal to the body of the casting.

Three of these units will now be placed on approved field service locations for a minimum period of one year. Then, under the 4th Edition of the *Manual*, if trouble free service has been attained for the period of one year the unit will be released for general use by the water utility industry.

Full Approval Granted

A certificate of *Full Approval* was granted this month by the *Foundation* for the ClaVal Company's 2-inch reduced pressure principle backflow prevention device. This approval was granted under the specifications of the

3rd Edition of the *Manual of Cross-Connection Control* when the three units on field evaluation completed a full three years of trouble free service. The units under surveillance for the three year period were located at

Color Labs in Hollywood, Ernest & Jennings in Los Angeles, and at Fort MacArthur in San Pedro. Congratulations to ClaVal for the success of the first of their units to reach Full Approval status.

Lab Delayed

Completion of the Laboratory has been delayed by a strike at the Cutler-Hammer plant. While the strike has now been settled, the backorders of other sizes of starters and components has caused a serious delay in the particular equipment that Cutler-Hammer has offered to donate to the new

Lab. Thus, while the pull-in and metering sections of the main electrical panel have been received the circuit breaker and motor starter section of the panel is at a standstill until we receive these last two items of switch gear. Furthermore, until the electrical panel is set in place we can not

move the new instrument panel into its proper position. We are told that it looks like three or four more weeks delay is to be expected. In the mean time we are operating from the high pressure service line on a once-through basis.

Manual Delayed

The work of completely revising the *Manual of Cross-Connection Control* was rather seriously underestimated by the Director on his quarter-time Cross-Connection work schedule. Hence, the preliminary estimate of an October issue date has obviously been shot-down; and, the new esti-

mate is sometime in March. The primary changes have been in Chapter 10 dealing with the design, materials specifications and evaluation. In this Chapter we have had the very considerable assistance of the Manual Committee of the *Southern California Water Utilities Association*,

Inc. and also of the Cross-Connection Control Committee of the *Los Angeles County Health Department*. In addition, however, numerous small details throughout the *Manual* have required hours of attention with the resultant gross delay in the publication of the revised *4th Edition*.

Interest Grows

In recent weeks it has been an encouragement to notice the number of inquiries asking to be placed on the mailing list for *CROSS TALK*. These letters have been from individuals employed by water purveyors, health departments, city administrations and manufacturers throughout the nation. We are most happy that this quarterly seems to be filling a need and we sincerely hope that we may continue to keep interested and concerned people posted on the cur-

rent developments and needs in the broad field of the protection of the health of the public.

The scope of activities of the *Foundation* is not limited just to the area of cross-connection control. Our name goes back 25 years to a time when a specific need generated a deep interest in the solution of some of the key problems of cross-connection control. Today, while there still are many problems to be solved in the

field of cross-connection control we are in a position where we can and have undertaken research in other areas in the broad field of fluid mechanics and we hope that we may be of considerable help in a number of areas as the Laboratory gets under full operation. The work undertaken so far has, of necessity, been on a small scale. But the groundwork has been laid and will be further developed as time goes on.



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