

Foundation for Cross-Connection Control and Hydraulic
Research
University of Southern California
Manual of Cross-Connection Control
10th Edition

Manual Review Committee
24 September 2002

USC Campus
KAP203

Meeting Synopsis

Dr. J.J. Lee, Director, welcomed all members of Manual Review Committee (MRC), Committee roster distributed, address corrections requested.

Those in attendance:

Mike Ahlee	Bill Gedney	Bob Purzycki
Ken Anderson	Lloyd Huff	Paul Schwartz
Rick Bird	Sam Johnson	Patrick Sylvester
Dick Carlson	Dr. J.J. Lee	
Henry Chang	Brad Noll	

- Staff to request new MRC representative from State of California DOHS.
- Paul Schwartz updated MRC with current EPA activity. Distribution system White Papers, including Cross-Connection Control, have been published on EPA Ground Water and Drinking Water web page (<http://www.epa.gov/safewater/tcr/tcr.html>).
- Recent backflow incident in Santa Fe Springs was discussed. Handouts were provided.
- Patrick Sylvester updated MRC regarding the Foundation's AWWARF Project #2611 - Undergoing final editing at AWWARF.
- Patrick Sylvester updated MRC regarding the Foundation's ongoing residential survey project in Davenport, Iowa.
- Dick Carlson updated MRC regarding the State of California's Recycled Water Task Force. White paper has been published, and next general meeting is in Anaheim 11/19/02. (<http://wwwowue.water.ca.gov/recycle/taskforce/taskforce.cfm>)

- Motion to accept modified minutes of 23 May 2000 meeting was passed.
Modification: Page 2 of 2 , Action Item #970502 - “He also recommended the removal of the proposed pressure fatigue test, and replace with a hydraulic shock test.”

Old Business

Two handouts were provided that listed the Action Items from past meetings. The first handout listed the Actions Items by year-month-item # (i.e., 970101; 1997, January, Item #01). The second handout listed the twenty-four proposed BPMA Items from their letter dated 16 May 1997. For each referenced Action Item, the handouts contain a description of the action item, current status, and completion date.

Reviewed Action Item list.

Section 7

Item # 971003 and #990101 - Ongoing update of facilities and equipment, with their respective recommended protection.

- MRC members to provide additional material by 1 November 02

Section 8

Item #970105 - Discussed backflow incident report forms, as part of an emergency response plan.

- Rick Bird and Mike Ahlee volunteered to develop a draft incident report form by 1 November 02.

Section 9

Item #20000201 - Staff prepared some preliminary data (handout) on various sized bleed valve arrangements used in the field testing procedures. This data was prepared to determine what flow rates could be achieved while maintaining an error of no more than 0.2 psid.

- MRC requested Staff to perform additional testing. Run similar tests with larger (i.e., 1/4"Ø, 1/2"Ø, 3/4"Ø) needle valves, in addition to a bleed valve arrangement containing a manifold of 1/8"Ø needle valves.

Item #990104 – Mike Ahlee to review and send draft.

Section 10

Item #970501 - Factory audits were discussed as being either announced or unannounced types. Suggestion was made that all manufacturers could be required to produce internal production data (i.e., ΔP's on check valves, etc.).

Motion was made to reject the original proposal dated 20 May 1997. However, a follow up Motion to table the issue was passed.

- **Action Item:** Brad Noll to ask BPMA for their position and recommendation regarding factory audits. Once this information is received by the MRC, then the issue will be voted upon.

Item #970502 - Gage Standard - Staff has modified the draft, and it will be prepared for the next meeting.

Item #970503 - Modification of *cause for failure* criteria for cycle test. Samples of elastomer discs that had undergone cycle testing were handed out for reviewed. Discs ranged from un-cut condition to 360° cuts at sealing surface. Staff explained that cutting of the disc did not necessarily cause a check valve to leak during direction of flow or backpressure testing. Staff expressed concern that severely damage discs could still pass the performance based tests.

- MRC requested that Staff proceed with the development of the performance based criteria draft in each of the respective Standards.

Item #970506 - Request to eliminate the Field Evaluation and replace with alternate lab tests. MRC had previously received data regarding the failure rate (~33%) during the initial submittal to the Field Evaluation phase of the 9th Edition Approval Program.

- MRC requested that Staff break this data down by month of Field Evaluation, and have it prepared for the next MRC meeting.

New Business

- Dick Carlson inquired about the proposed language for field test gage equipment periodic accuracy verification. The 9th Edition recommends annual accuracy verification, and it has been proposed that the 10th contain some recommended language in the appendix. As discussed at the previous MRC meeting, Staff will solicit input from the gage manufacturers for their recommendations.
- Henry Chang informed the MRC that a basic modification to the SVB field test procedure (i.e., perform check valve test, then air inlet valve test) will be submitted in the next draft of the field test procedures. The early efforts for the 9th Edition were attempting to make the PVB and SVB field tests as similar as possible. Field experience has found that this format change is simpler and more effective.
- Mike Ahlee inquired about the Foundation producing a separate document containing the illustrated field test procedures for 2, 3, and 5 needle valve configurations. Staff will review this suggestion.

Meeting Schedule:

The following meeting dates are being proposed:

14 November 2002 – *General meeting - Tentative at USC campus or lab*

23 January 2003

or 4 February 2003 - Open meeting - Tentative (Need to confirm available of facilities.)

Adjourned 2:55 pm