

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

Manual Review Committee

23 May 2000

Friendship Auditorium
3201 Riverside Drive
LA, CA 90027

Draft Meeting Synopsis

Paul Schwartz welcomed all members of Manual Review Committee (MRC),
Committee roster distributed, address corrections requested.

Those in attendance:

Mike Ahlee	Bill Gedney	Brad Noll
Ken Anderson	Ernie Havlina	Bob Purzycki
Dick Carlson	Lloyd Huff	Paul Schwartz
Henry Chang	Sam Johnson	Patrick Sylvester
Eric Foltz	Orvil Kirk	

Guests

Rand Ackroyd	Steve Lederman	Dan Meyer
Pat Ahearn	Mike Lueck	John Vikupitz

- Paul Schwartz updated MRC with current EPA activity. Federal Advisory Committee (FACA) continues to meet regularly in Washington, DC.
- Recent backflow incidents in Pineville, LA and Stanton, CA were discussed. Handouts were provided.
- Update of AWWARF study - Data from the surveys is being compiled. A workshop on 7 April 2000 was conducted in Las Vegas, NV.
- Motion to accept minutes of 29 February 2000 meeting was passed

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 #1). 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.

A draft of Section 10, including the Field Test Kit information, was handed out.

Action Item # 970502 New Gage Standard

As requested by the MRC, staff performed flow tests of existing gage equipment.

- Staff recommendation to establish minimum Cv flow rate of 0.1 gpm
- Staff recommendation to establish a response time for gauge kit.

Draft of gage standard was reviewed.

Gage accuracy – Mike Lueck, Midwest Instrument, recommended that accuracy test should be performed on a descending scale, at key points on the scale, and at ambient temperature. He also recommended the removal of the proposed pressure fatigue test.

Eric Foltz suggested that the staff perform the fatigue test on new/unused gages.

Following discussion of the accuracy test, Mike Ahlee suggested that the gage standard contain a recommendation or guideline for annual gage testing/inspection. It was felt that it was not just a matter of accuracy, but also leakage at gage kit fittings or needle valves, or a pressure sustaining test.

Action Items:

- Staff to perform additional tests to determine flow rates associated with ¼ turn of needle valves
- Staff to contact backflow gage kit manufacturers, and ask for recommended tests to be performed during annual gage testing/inspection.
- Staff to request a sample backflow gage kit from each of the gage manufacturers so that proposed tests can be performed.

BPMA Item #10 – Size of Testcocks

At 23 Feb 00 meeting, Staff demonstration 6” RP field test procedure with different sized bypass hoses. Previous shutoff valve leakage testing correlates with present ¾” ø testcock size. Staff recommended to maintain current testcock sizes. BPMA requested that the other testcock sizes are tested too.

Action Item: Staff to perform similar flow tests with ½”ø and ¼”ø testcocks.

BPMA Item #11 – Lubrication

Draft language had been discussed at past meeting.

“When proper operation of an assembly shall not be is dependent upon a particular type or class of lubricant, manufacturer shall provide documentation.”

Action Item: To be voted on at future meeting.

BPMA Item #12 – shutoff valves

BPMA feels that this section is design restrictive.

Action Item: BPMA to submit suggested modifications for MRC consideration.

Action Item # 970923 Fire Line Backflow Preventers

Rand Ackroyd asked if this item is still under consideration. The addition of laboratory tests for DC, RP, DCDA, and RPDA had been accepted in principle at previous meeting. It was recommended to utilize the “-F” suffix with the respective assemblies.

Action Item:

Staff to prepare language from materials previously submitted.

BPMA Item #15 – Orientations

BPMA requested to cycle test all orientations in the lab, but Field Evaluate only one orientation. Staff compiled data from assemblies conducted under the 9th Edition, and approximately 33% failed the Field Evaluation on the first attempt. There is an insufficient number of evaluations directly comparing vertical vs horizontal orientations, so the Staff recommended to maintain the current requirements. BPMA requested to review this issue again at the next open MRC meeting.

BPMA Item #17 – RV Port

Staff recommended to remove the differential pressure relief valve port diameter from Table 10-4. The performance requirement is spelled out in the discharge capacity.

BPMA Item #19 – Backsiphonage Test – RP

At the 29 Feb 00 meeting, staff demonstrated the proposed modified test to the MRC. A sample of this test procedure is contained in the Section 10 draft handout.

BPMA Item #20 & #21 – Cycle Test

Staff prepared performance tests to be conducted at the conclusion of the cycle tests. Samples of these test procedures are contained in the Section 10 draft handout.

Action Item #990505 – DCDA/RPDA Cross-over points

The justification for the 3 gpm cross over point value was questioned at an earlier meeting, and staff research determined that the value was experimentally derived.

Action Item #20000201 – DC field test, size of bleed valve arrangement

Staff is still conducting tests of various sized bleed valves arrangements. Staff wants to identify the flow rate limits to maintain an accuracy of ± 0.2 psid.

Meeting Schedule:

The following meeting dates are being proposed:

18 July 2000

instead of 27 June 2000 – *General meeting - Tentative*

22 August 2000 - *General meeting - Tentative*

10 October 2000 - *Open meeting - Tentative*

Adjourned 2:35 pm