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

Manual Review Committee

23 February 1999
Foundation Laboratory

Meeting Synopsis

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

Those in attendance:

Mike Ahlee	Bill Gedney	J.J. Lee
Richard Bird	Ernest Havlina	Chuck Nena
Dick Carlson	Sam Johnson	Brad Noll - BPMA
Henry Chang	Russ Johnson *(for Lloyd Huff)*	Paul Schwartz
Eric Foltz		Patrick Sylvester
Marty Freibert		

- Paul Schwartz updated MRC that AWWARF will be issuing a request for proposals for a new project entitled "National Assessment of the Impact of Cross-Connections in North American Water Supplies." This RFP should be issued by mid-March.

  EPA has requested input regarding the revisions to the Ground Water Rule.

  AWWA is conducting a teleconference on 11 March 1999, and one of the subjects will be backflow prevention.

- Roster update: Staff has sent a letter to Mr. Gary Hoffman at CA DOHS requesting a new representative on the MRC. No formal response has been received yet.

- Minutes of 5 January 1999 meeting were deferred to the end of today's meeting since a couple of MRC members did not receive the minutes in the mail.

Old Business

Sections 5 & 7

The reorganizing of these sections is planned to make them more usable to people doing cross-connection control surveys. The proposed new categories in this section have been identified as the following.

Services	Manufacturing	Food Processing	Medical	Restricted	Others

Schwartz questioned the possibility of referencing the categories established in the North American Industry Classification System – NAISC (previously contained in the Standard Industrial Classification – SIC codes). It was felt that if a reference could be made to an already established category code, this might help those during surveys.

> ***Action Item:*** Staff to investigate the use of NAICS codes, to determine if there are any restrictions of use.

Section 9

A number of issues for the field test procedures have been under discussion.

RP Field Test Procedure

2nd Check direction of flow test (current optional test A.2.2)

Bob Purzycki was to provide some field test data comparing the backpressure field test results versus the direction of flow test results, but he could not attend today's meeting. Mike Ahlee has conducted a few field tests with inconclusive results. Brad Noll commented that there was a significant impact when the direction of flow field test requirement was established in the 9th Edition for the double check valve assembly. Check valves with a reading below 1.0 psid and above 0.0, are still holding tight (i.e., preventing backflow).

> ***Action Item:*** Review more data from field. MRC requested that Staff perform lab tests under controlled conditions to gather more data.

Simultaneous leakage of 1st check and No. 2 SOV

At the last meeting Sam Johnson agreed to submit draft wording regarding the simultaneous leakage of a first check valve and No. 2 shutoff valve when the bypass hose is utilized. Attached is the language that he submitted. After discussing the procedure it was recommended that each MRC member try to utilize the procedure to become more familiar with it, and to see if the proposal is valid.

Gage hose attachment procedure

Recommendation that the initial attachment of the gage hoses should be modified so that Testcock No. 3 is attached to first. This would take into account the types of testcocks that are activated when the hose is attached.

Action Item: Staff to make this modification to field test procedure.
Action Item: Staff to add reference to flow test (per NFPA Standards) in NOTE in Section 9.1.3.1.

Section 10
Laboratory Evaluation Tests

To update the MRC with some of the laboratory evaluation test procedures, Staff demonstrated the following:

- Head loss vs flow rate: Typical piping set up of assemblies in test line, location of piezometer rings for pressure readings, and data acquisition system. Sample flow data was simulated so that a head loss vs flow rate curve could be generated.

- Backsiphonage Test: Demonstration of fouling wire location on the check valves, and an example of the flow rate back through a fouled check valve. Discussion of the different types of check valves (i.e., poppet, hinged) and the placement of the fouling wire.

- Cycle and Thermal loop Test systems were reviewed.

- Water column accuracy test for field test gages was demonstrated.

New Business

It was recommended that Section 8 should contain the basic elements of a backflow prevention assembly tester and cross-connection control program specialist certification programs. This information would augment the sample letters currently contained in Section 8.12, 8.13, 8.14, and 8.15. This new material would identify the following elements:

- Need to Know Criteria
- Education/Experience Requirements
- Examination Process

Action Item: Motion passed to proceed with development of the basic elements of a tester certification program.

Action Item: Motion passed to proceed with development of basic elements of a cross-connection control program specialist certification program.

Action Item: Subcommittees formed, and all sample materials from MRC members should be forwarded to the subcommittee chairperson*. Initial draft due by March 31, 1999.

Tester: Ahlee*
Johnson
Havlina
Specialist: Bird*
Carlson
Foltz

Minutes of 5 January 1999 meeting were brought back on the table for approval. Henry Chang offered the following corrections:

- 3 psi buffer (page 3 of 4)– Add statement that the Foundation's Approval process would maintain the 3 psi buffer for the Field Evaluation.
- Other field test procedure issues (page 4 of 4) – Add the following underlined text:

PVB: Add diagnostic steps for leaking No. 2 shutoff valve.
Clarify gage level in both tests, and when it is critical <u>(applies to DC field test too).</u>
Add detailing for verification of air inlet full opening.
<u>Add the installation of the bleed valve arrangement at the start of the field test.</u>

Minutes approved with above modifications.

Meeting Schedule:

The following meeting dates have been scheduled:

6 April 1999 – General meeting at USC
25 May 1999 – Open meeting at Friendship Auditorium
3201 Riverside Drive, LA, CA 90027
(One block west of Foundation laboratory)
29 June 1999 – General meeting at USC

Adjourned 2:52 pm