To: Manufacturers of backflow prevention assemblies

From: Paul H. Schwartz, Chief Engineer

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Subject: Evaluation Policy 14-003 - Change Approval from the 9th to the 10th Edition

This policy is being issued to provide clarification on the additional testing / evaluation that is required to change the Foundation’s Approval of a backflow prevention assembly from the Manual of Cross-Connection Control 9th Edition to the 10th Edition.

The manufacturer of a backflow prevention assembly requesting a change of their Foundation Approval from the Manual of Cross-Connection Control 9th Edition to the 10th Edition must comply with the following:

1. The shutoff valve identification must comply with the identification requirements as per Manual – 10th Edition Section 10.1.2.3.3.1 Shutoff Valve Marking.

2. Evaluate the backflow prevention assembly to the following:

   a. Laboratory Evaluation tests - 10th edition:
      i. Double Check Valve Assembly & Double Check Detector Assembly
         10.1.2.3.3.1 Hydrostatic
         10.1.2.3.3.2 Pressure loss vs flow rate
         10.1.2.3.3.3 Test cock continuous flow
         10.1.2.3.3.4 Closing point 1st check valve
         10.1.2.3.3.5 Closing point 2nd check valve
         10.1.2.3.3.6 Interdependence of components

      ii. Reduced Pressure Principle Assembly & Reduced Pressure Principle Detector Assembly
         10.1.2.2.3.1 Hydrostatic
         10.1.2.2.3.2 Pressure loss vs flow rate
         10.1.2.2.3.3 Relief valve operation
         10.1.2.2.3.4 Relief valve sensitivity and test cock continuous flow
         10.1.2.2.3.5 Closing point 1st check valve
         10.1.2.2.3.6 Closing point 2nd check valve
         10.1.2.3.7 Interdependence of components
         10.1.2.3.9 Backpressure/Backsiphonage
iii. Pressure Vacuum Breaker Assembly
   10.1.2.4.3.1 Hydrostatic
   10.1.2.4.3.2 Pressure loss vs flow rate
   10.1.2.4.3.3 Test cock continuous flow
   10.1.2.4.3.4 Air inlet opening point
   10.1.2.4.3.5 Check valve closing point
   10.1.2.4.3.6 Interdependence of components

iv. Spill Resistant Pressure Vacuum Breaker Assembly
   10.1.2.8.3.1 Hydrostatic
   10.1.2.8.3.2 Pressure loss vs flow rate
   10.1.2.8.3.3 Test cock continuous flow
   10.1.2.8.3.4 Air inlet opening point
   10.1.2.8.3.5 Check valve closing point
   10.1.2.8.3.6 Interdependence of components

b. Field Evaluation is not required

3. Evaluate bypass assemblies for DCDA & RPDA assemblies
   a. Item No. 1 above – Marking compliance
   b. Item No. 2.a.i or 2.a.ii above