

**Minutes of the
November 19, 2010 Meeting
Small Water Systems Technical Assistance Center (TAC)
Advisory Board**

A regular meeting of the TAC Board was called to order by Chairperson Serena DiMagno in Room 105 of the Rachel Carson State Office Building, Harrisburg, PA at 10:06. The purpose of the meeting was to review a draft Guidance Document for 4-Log Treatment of Viruses.

The following board members/alternates were present:

Penny McCoy, Pennsylvania Rural Water Association
Serena DiMagno, Water Works Operators Association of Pennsylvania
John Poklembo, Water Works Operators Association of Pennsylvania
Mary Gaiski, Pennsylvania Manufactured Housing Association
Mike Sienkiewicz, Pennsylvania Manufactured Housing Association
Herb Spencer, American Water Works Association, Pennsylvania Chapter
Daniel Standish, American Water Works Association, Pennsylvania Chapter
Christine Hoover, Pennsylvania Office of Consumer Advocate
Catherine Rapose, RCAP Solutions, Inc.
James Wheeler, Pennsylvania State Association of Township Supervisors
Julie Kollar, League of Women Voters of Pennsylvania
Ron Rohall, Pennsylvania Association of Conservation Districts, Inc.
Korah Abraham, USDA Rural Development
Jack Mitchell, Pennsylvania Builders Association
James Steele, Pennsylvania Builders Association
Mary Roland, State Board for Certification of Water & Wastewater Systems Operators

Members/alternates from the following organizations were not present:

County Commissioners Association of Pennsylvania
Pennsylvania Association of Realtors
Department of Community and Economic Development
Center for Rural Pennsylvania
Pennsylvania Public Utility Commission
Pennsylvania Infrastructure Investment Authority
Pennsylvania Municipal Authorities Association

The following DEP staff was present:

Veronica Kasi, Bureau of Water Standards and Facility Regulation
Janet Fisher, Bureau of Water Standards and Facility Regulation
Kevin McCleary, Bureau of Water Standards and Facility Regulation
Matt Walderon, Bureau of Water Standards and Facility Regulation
Mark Matlock, Bureau of Water Standards and Facility Regulation

Non-member present at this meeting:

R. Timothy Weston, K & L Gates

General TAC Business

New alternate member Catherine Rapose, representing RCAP Solutions, Inc, was welcomed to the committee. Introductions were made all around.

Dan Standish made a motion to approve the minutes from the June 18, 2010 TAC Board meeting. Mike Sienkiewicz seconded. Vote was unanimous, motion carried.

4-Log Treatment of Viruses Demonstration Guidance Presentation

Kevin McCleary provided an overview on the proposed guidance document, "4-Log Treatment of Viruses". Mike Sienkiewicz made a motion to have the following comments submitted to the Department in the form of a letter signed by Chairperson DiMagno. Dan Standish seconded. Vote was unanimous, motion carried.

- Page 2, first paragraph, second to the last sentence -- Change "degradations" to degradation".
- Page 4, Section (B) -- Change "one pound" to "1.25 pounds" of chlorine.
- Language needs to be added to Chapter II explaining why the NSF standard for chlorine should be used. In addition, language explaining why a digital chlorine meter is needed rather than a colorimeter or other measurement tool.
- Page 6, Section D(2), Contact Time -- Revise the last paragraph to delete the word "some" in the first sentence. In addition, language needs to be added to clarify that the chlorine concentration can not exceed 3 mg/l at the point of entry while allowing for a minimum CT value (time x concentration) of 8.
- We understand the Department was planning on adding language to the guidance document in relation to fire flow. We recommend that you do NOT add this language. This is irrelevant to the scope of the document. The document should deal with raw, untreated flow of water for potable water purposes into the system, not consumption or demand from the system.
- Page 6, Section D(4), Temperature -- Modify this paragraph to indicate the point where temperature readings should be taken is at the point of where the chlorine residual is being determined, not at the storage tank. Additional language is needed to describe the process that should be followed if the temperature is not 5°C. Temperature values should also indicate the Fahrenheit equivalency.
- Page 7, Section E, Disinfection -- Delete both paragraphs 2 & 3. There are a number of other means to feed hypochlorite. These are design issues that should not be included in this guidance document. In addition, in the first paragraph, delete the sentence describing which systems must comply with

this requirement. This information should be included upfront in the introduction.

- The introduction needs to be expanded to include the information on which systems will need to comply with these requirements and under what circumstances.
- The heading to paragraph E should be changed to “Demonstration or Achieving Compliance”. This paragraph should describe the process to be followed.
- Chapter IV, first paragraph – Change “condition” to “conditions”.
- Additional language is needed in Chapter IV to handle multiple tank setups for baffling.
- Page 16, Paragraph C(1) -- Change “in” to “of” in the first sentence of the paragraph heading “Appropriate challenge particle”.
- In Chapter 9 include a table that shows the requirements by population served. This information is already in the table under Introduction. This table could parallel the table included in the Introduction.

During the discussion Mike Sienkiewicz moved to add language to the comments asking the Department to consider development of standardized designs for disinfection and 4-log removal that could be used by small systems to streamline DEP review. James Wheeler seconded motion. Comments expressed by members of the committee included:

- a. A suggestion to add examples in an appendix to the guidance document
- b. DEP has already made a commitment to share examples. The responsibility lies with the manufacturer to develop the design for a particular system.
- c. Some configuration and modification will always need to be done by a licensed professional engineer. This process can not be streamlined.

Vote was 4 in favor, 8 opposed. Motion did not pass to include this comment.

Motion to adjourn was made by Dan Standish, second by James Wheeler. Meeting adjourned at 12:00 pm.