

I and E Committee Meeting Minutes

October 1, 2013

Committee Members Present:

Tom Konsler, EH Supervisor and Chair
Tim Bannister, Operator
Cory Brantley, Installer
Wayne Jones, EH Specialist
Shankar Mistry, Engineer - Private Sector

I. Call to Order *Tom Konsler, Chair*

- Opening remarks
- Reading of Newly Revised Statement of Conduct

II. Approval of Agenda and Minutes

- Agenda for October 1, 2013 meeting approved
- Review of draft minutes from August 19, 2013 meeting; Motion to approve by Wayne Jones, seconded by Tim Bannister; unanimously approved by voice vote.

III. Old Business

- **Item 1: Aquapoint, Inc. Revised Innovative Approval** (represented by Bill Freed who deferred to Trish Angoli, the OSWP project manager to give the presentation):

Aquapoint, Inc.: Manufacturer applied for proposed modifications to currently approved Bioclere configurations, design/siting criteria, and O&M requirements (IWWS-2002-1). Update the Bioclere approval in regard to Rule .1970 (*refer to meeting minutes of April 4, 2013*)

Trish Angoli spoke about the reorganization of Approvals and incorporation of updates per Rule .1970 in the Bioclere Innovative Approval.

The four main points in the submitted application are:

- Use single dosing pumps instead of dual dosing pumps for single family residence (SFR) units;
- Limit requirement for Grade II operator, when one was required;
- Remove the requirement for a NEMA 4X box within a NEMA 4X box; and
- Remove the final settling tank for the residential units

The requirement for the NEMA 4X box within a NEMA 4X box was removed from the draft Approval because of redundancy.

For the use of the single (instead of dual) dosing pump, the gpd limit was set at < 3,000 gpd which will cover a majority of the SFR (*domestic strength*) for residential applications. Anything \geq 3,000 gpd or classified as high strength wastewater is required to meet the dual dosing pump requirement.

For systems with flows < 1,000 gpd (domestic strength)

- the final settling tank is not required

I and E Committee Meeting Minutes October 1, 2013

- only requires a licensed subsurface operator
- not required to be designed by a PE

Systems with flows $\geq 1,000$ gpd or high strength would require a final settling tank, a Grade II operator, and designed by a PE

Bill Freed stated that the pumps are locally available and that there is a pump fail alarm w/ telemetry.

Statement by Nancy Deal read into the minutes by Trish Angoli:

Somewhere around the year 2008, a group including NCSU faculty, DWQ personnel and private sector professionals developed a draft proposal that included:

- 1. A description of multiple level certification for Subsurface System Operators;*
- 2. Draft training agendas for both re-training existing operators and providing initial training for new operators, and;*
- 3. A draft request that the WPCSOCC consider expanding the levels and inform the Branch/University, etc. what exactly would be required from a statutory and regulatory perspective.*

The intention of that effort was to appropriately adjust the certification requirements for systems that included suspended or fixed-growth aerobic wastewater treatment, including trickling filters. There was a perception that the requirement for a Grade 2 Biological Certification for such systems resulted in increased cost to system owners to engage persons with such certification. Further, experience has shown that while the treatment processes used are identical, some Grade 2 Operators are not familiar with the specific technologies when they are scaled for smaller flows.

At the time, the WPCSOCC made it clear that a request to re-vamp the certification program must come from the Section/Branch. This effort did not move forward for various reasons. However, the materials are still in my possession and it makes sense to re-start that project. While it will obviously not be completed within the time frame that our E&I Committee will consider applications affected by the Grade 2 Operator requirement, it is our intention to pursue multi-level certification that will eventually accommodate these types of technologies. If we are successful, this will ensure that persons conducting maintenance and inspection activities on such systems possess the necessary knowledge and skills.

Tom Konsler called the question for recommendations and/or motions. Tim Bannister moved to accept the draft Approval submitted by the Branch with incorporation of the discussed edits and the operator classification dependent upon a decision by the governing body of Water Pollution Control System Operators Certification Commission (WPPSOCC). The motion was seconded by Cory Brantley.

Tom Konsler restated the recommendation of Approval with the edits of 1,500 gpd limit to require quarterly inspection and a recommendation to WPPSOCC or to the governing body that the I&E Committee consensus is that a licensed subsurface operator is sufficient for systems treating domestic strength wastewater with flow less than 1,000 gpd. The presumption is that if the manufacturer, WPPSOCC, and the Branch are not able to work out the operator certification question, the operator level will revert to the certified Grade II operator. If operator requirement changes, Aquapoint does not need to come back before the Committee since the change would be an administrative change.

I and E Committee Meeting Minutes October 1, 2013

Bill Freed agreed that Aquapoint would comply with the operator certification level decision.

Tom Konsler asked Tim Bannister if he wanted his original motion to stand. Tim Bannister answered in the affirmative. Tom Konsler restated the question of recommendation of the Approval with the additional edits. Tim Bannister made a motion to conditionally accept the draft Approval (conditions – operator requirements subject to WPPSOCC decision); Seconded by Cory Brantley; 5 ayes

- **Item 2: Clearstream Wastewater Systems, Inc.: Modifications to current Controlled Demonstration Approvals** (represented by Wayne Peyton)

Clearstream Wastewater Systems, Inc. is requesting approval of proposed modifications to currently approved CDWS-2009-02 and CDWS-2011-01.

CDWS-2009-02

- Modification 1: Request changes to the models listed in the Approval due to the change in the way the units denitrify. Want to add D-series and DA-series models (D, DC, DU, DD, DDC, DA, DAC, DAU, DAD, and DADC). A change from what was originally proposed (*refer to page 16 of 17 in the draft Approval*). Mr. Peyton stated that Clearstream’s Model D and Model DA systems have been certified to meet and exceed ANSI/NSF Standard 245. The justification presented is that Clearstream is using these two (2) denitrification processes to achieve the levels of treatment required for this Controlled Demonstration Approval. The drawing and language in CDWS-2009-02 would be changed to reflect Model D and Model DA system use.

Questions were brought to the floor by the Committee to clarify the flow restrictor and airlift assembly added to the general description in the Approval.

Tom Konsler appointed subcommittee members for the proposed modifications review: Cory Brantley, Shankar Mistry, Tim Bannister; OSWP project manager – Steven Berkowitz

Cory Brantley pointed out that he poured the tanks for the units, but would volunteer to be a “non-voting” member of the subcommittee to answer questions about the tanks.

Tom Konsler conveyed to Cory Brantley that there was no voting on the subcommittee review level. He also pointed out the proposed changes also include the issue regarding the Grade II operator requirement.

- Modification 2: Request to change the required system operator level from a Grade II operator to a licensed subsurface operator. The presented basis was that there are more complicated aerobic treatment units on the market that do not require a Grade II operator.

Wayne Peyton confirmed that he had NSF 245 data to be reviewed by the subcommittee.

Steven Berkowitz raised the issue regarding the high water alarm triggering a battery backup in reference to Modification 3 (see below).

I and E Committee Meeting Minutes October 1, 2013

- Modification 3: Request to replace the remote monitoring and management system Model RMS3030C with Model RMS-308. The given justification was that the manufacturer (RMSYS, Inc.) no longer manufactures Model RMS3030C.

Tom Konsler posed that the subcommittee will determine if the battery backup requirement is in line with other Approvals, especially for drip dispersal systems.

CDWS-2011-01

- Modification 1: Request to change the required system operator level from a Grade II operator to a licensed subsurface operator. The presented basis is that there are more complicated aerobic treatment units on the market that do not require a Grade II operator.
- Modification 2: Request to replace the remote monitoring and management system Model RMS3030C with Model RMS-308 and that the battery back-up requirement be rewritten to reflect Rule .1970 (only require a battery back-up if the daily flow is > 600 gpd). The justification is that the manufacturer (RMSYS, Inc.) no longer manufactures Model RMS3030C.

Tom Konsler restated the subcommittee members for the proposed modifications review: Cory Brantley, Shankar Mistry, Tim Bannister; project managers (Steven Berkowitz)

Lorna Withrow will confirm (with Nancy Deal) that Steven Berkowitz is the project manager for both applications.

Tom Konsler is open to Committee members not in attendance that are willing to serve on the subcommittee.

IV. New Business

- Review of I&E Committee Meeting Protocols and Procedures
 - Tom Konsler asked for comments starting with the flow chart.
Lorna Withrow pointed out that the bolded arrows were an indication of actions pertaining to the OSWP Branch and will be discussed within the Branch.
Tom Konsler
 1. Pointed out that the appeals process needed to be included in the “disapproval” chain.
 2. Stated that the process should end in an approval or disapproval, not a loop.
 3. There should be a “no response” time limitation, suggestion of a 30-day time limit for the manufacturer to respond.

Tim Bannister asked if the review period/completeness review time frame was an attempt to prevent something from being reviewed for two years. Lorna Withrow replied that she thought that was the intent. Result was a suggested change to table heading, possibly “Information/Data Review Timeframe”.

- Tom Konsler questioned whether the “completeness review” in the table is different than the review conducted by the Project Manager and Staff Coordinator. Trish clarified that the

I and E Committee Meeting Minutes October 1, 2013

completeness review by the Project Manager and Staff Coordinator only is an assessment of the inclusion of the materials per the list outlined in Rule .1970. Whereas the table refers to the completeness review of the submittal package by the subcommittee. Lorna Withrow confirmed to Shankar Mistry that “SC” on the flow chart was the abbreviation for the Staff Coordinator, not the subcommittee.

- Tom Konsler thinks the list of what is required in the application pursuant to Rule .1969 should be listed in the procedures. Confirmation that Lorna Withrow will receive and compile review comments as well as the map out the tail-end of the process on the flow chart.

V. Status of Pending I and E Applications

- Delta Ecopod N: Application for Controlled Demonstration; On-hold per manufacturer; Sean McGuigan stated that he represented this product and the manufacturer was in the process of doing in-situ testing and to collect additional data as requested by the subcommittee.
- EZ Treat, Inc.: Application for Innovative Approval; In Subcommittee; Data has been submitted and the Subcommittee meeting is scheduled for October 16, 2013.
- Infiltrator Systems, Inc. (ISI): Amended request for modifications to Innovative Approval for the Quick4 Plus Standard LP chamber (IWWS-2010-R1); Pending presentation at the November 2013 I & E Committee meeting.
- Presby Environmental, Inc.: Application for Innovative Approval for Presby Advanced Enviro-Septic (AES) System; In a holding pattern due to various and sundry issues; the Branch will continue with the process they need to do until such time as the issues are resolved.

VI. Announcements

- Next scheduled meeting date: Tuesday November 5, 2013; Cardinal Room, 5605 Six Forks Road, Raleigh, NC
- Infiltrator is on the tentative agenda for November 2013; Biomicrobics may request inclusion on the agenda.
- Lorna will poll the I & E Committee members in regard to the meeting scheduled for December 3, 2013.

VII. Adjourn

Others present at this meeting:

Sean McGuigan, Presby Environmental, Inc.

Wayne Peyton, Clearstream Wastewater Systems, Inc.

Doug Lassiter, NC Septic Tank Association

Trisha Angoli, OSWP

Kevin Neal, OSWP

Joanne Rutkofske, WCC

Bill Freed, Enviro-Tech

Steven Berkowitz, OSWP

Steve Barry, AQWA, Inc.

Minutes by Lorna Withrow, OSWP