

I and E Committee Meeting Minutes

November 5, 2013

Committee Members Present:

Tom Konsler, EH Supervisor and Chair
Tim Bannister, Operator
Cory Brantley, Installer
Toney Jacobs, Soil Scientist - Private Sector
Harold Kelly, Soil Scientist – Public Sector
Andy Smith, NC Association of Local Health Directors

I. Call to Order (Tom Konsler, Chair)

- Opening remarks
 - Tom Konsler announced that he was retiring from the Orange County Health Department at the end of 2013.
- Reading of Statement of Conduct

II. Approval of Agenda and Minutes

- Agenda for November 5, 2013 meeting approved with the following changes
 - Added under “New Business” discussion of off-site systems
- Revision to the meeting agenda (new business item added); Motion to approve by Tim Bannister, Andy Smith seconded by; unanimously approved by voice vote.
- Review of draft minutes from October 1, 2013 meeting; Motion to approve by Tim Bannister, Cory Brantley seconded by; unanimously approved by voice vote.

III. Old Business

- **Item 1: Clearstream Wastewater Systems, Inc.: Modifications to current Controlled Demonstration Approvals** (represented by Steven Berkowitz, OSWP project manager; Wayne Peyton by telephone); Subcommittee members: Cory Brantley, Shankar Mistry, Tim Bannister

Steven Berkowitz gave a brief accounting of the sub-committee consensus about the proposed modifications to the current Controlled Demonstration Approvals CDWS-2009-02 and CDWS-2011-01

CDWS-2011-01: Clearstream Drip - Non-pressure compensating drip tubing

Some modifications were made to both approvals to ensure that the approvals were in-line with the actual technology and what was produced. References to the RMSYS 3030C counter (it is no longer manufactured) were removed from the approval. The automatically rechargeable battery backup power supply for the telemetry system and alarm is no longer required for domestic strength wastewater systems with a design daily flow < 600 gallons per day.

Modifications made were to CDWS-2011-01:

- Section VI. C. 4. , page 8 of 22
 - 1st sentence – Added the language “...to or malfunction of pump circuit”
 - 2nd sentence – Removed the language “...and alarm...” and added “...when the design flow exceeds 600 gpd”

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- Section VI. H. 1., page 9 of 22
 - Removed the term “Clearstream Model 3030C Controller”
- Section VI. H. 8., page 9 of 22
 - 2nd sentence – Added the language “...to or malfunction of blower/pump circuits”
 - 3rd sentence – Removed the language “...purchased from NSF International...”
- Section VI. H. 9., pages 9 & 10 of 22
 - 2nd sentence – Replaced the language “...or RMS3030C counter, either of...” with “...or approved equal specified by Clearstream Wastewater Systems, Inc....”
 - 3rd sentence – Replaced the term “RMS308C” with “the” and replaced “15” with “30”
 - Removed the language “With the RMS3030C counter, data logged for a 30-day period for retrieval during an inspection of the panel.”

Motion to recommend with changes by Tim Bannister; Seconded by Andy Smith; Motion carried to recommend the draft approval with changes: Four “ayes”, no “nays”, and one abstention (Cory Brantley).

CDWS-2009-02-R1: Clearstream advanced wastewater pretreatment system
N Models, NC Models, NU Model, NC2, NC3 Model, D Models, DC Models, DU Models, DD
Models, DDC Models, DA Models, DAC Models, DAU Models, DAD Models, and DADC Models

Note that some modifications were made to both approvals to ensure that the approvals were in-line with the actual technology and what was produced. References to the RMSYS 3030C counter (it is no longer manufactured) were removed from the approval.

Modifications made were to CDWS-2009-02-R1:

- Section A. 1. , pages 1 & 2 of 17
 - 1st sentence – Replaced references to “ND” with “D”
 - 2nd sentence – Added language “...a Flow Restrictor with flow control valve and spin filter shall be mounted on an effluent pump discharge pipe which returns an adjustable portion of the treated effluent to the Settling Tank. For TS-I denitrification/disinfection systems (DA Models) an airlift assembly shall be mounted in the clarification chamber of the ATU which returns an adjustable portion of the treated effluent to the Settling Tank during the night time low influent flow period.”
 - 2nd sentence – Replaced reference to “ND” with “D or DA”
 - Removed the following language “For higher levels of pretreatment, a Model 1100 filter shall be used in the pump discharge line from the ND Model systems.”
- Section A. 5. & 7., page 2 of 17
 - Replaced reference to “ND” with “D and DA”
- Section B. , page 3 of 17
 - Replaced reference to “ND” with “D and DA”
- Section C. 3. “Table 1”, page 4 of 17
 - Added the term “minimum” to the required settling tank size column heading
 - Added a row with a design daily flow of 1,500 gpd
 - Added Clearstream Model Numbers for all design flows listed in the table.
- Section C. 3. 6., pages 4 & 5 of 17
 - Replaced reference to “ND” with “D”

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- 1st sentence – Replaced the following language “... *an anoxic chamber (separate or integral) between the settling tank and the aeration chamber shall be provided (sized at 27 to 34 percent of the design daily flow)*” with “...*a Flow Restrictor with flow control valve and spin filter shall be mounted on an effluent pump discharge pipe which returns an adjustable portion of the treated effluent to the Settling Tank. For TS-I denitrification/disinfection systems (DA Models) an airlift assembly shall be mounted in the clarification chamber of the ATU which returns an adjustable portion of the treated effluent to the Settling Tank during the night time low influent flow period*”
- Removed the following language “*The effluent from the units shall also be pumped through a Model 1100 filter.*”
- Section C. 3. 8. a., page 5 of 17
 - Replaced the term “Model 1100 filter” with “Flow Restrictor”.
- Section C. 3. 9., page 5 of 17
 - 1st sentence - Replaced the language “...*or RMS3030C counter, either of...*” with “...*or approved equal specified by Clearstream Wastewater Systems, Inc.,...*”
 - 2nd sentence – Replaced the term “RMS308C” with “the” and “15” with “30”
 - Removed the language “*With the RMS3030C counter, data logged for a 30-day period for retrieval during an inspection of the panel.*”
- Section E. 1., page 7 of 17
 - Added the following language “...*, including requirements of the Water Pollution Control System Operators Certification Commission*”
- Attachment A
 - Added Model DA and D Drawings

Motion to recommend with changes by Tim Bannister; Seconded by Toney Jacobs; Motion carried to recommend the draft approval with changes: Four “ayes”, no “nays”, and one abstention (Cory Brantley).

- **Item 2: Review of I&E Committee Meeting Protocols and Procedures** (Tom Konsler)

There was no discussion.

Motion to adopt the draft I&E Committee Meeting Protocols and Procedures by Harold Kelly; Seconded by Andy Smith; Motion carried to adopt the draft procedures: five “ayes”, no “nays”, no abstentions.

- **Item 3: Multi-level Operator Certification** (Nancy Deal)

The proposal is to recommend at least four levels of certification for subsurface wastewater system operation. After much discussion, the general consensus reached seemed to be:

- There is a need for defined sub-classifications within an operator’s license;
- Need to keep it simple when trying to cover as many system types as possible;
- Operators needed to be trained properly in regard to subsurface;
- Adoption of rules within the OSWP Branch dealing with multiple-level operator certification may be needed; and
- May want to pursue incorporating multi-level certification for subsurface operators in the WPSOCC rules since they are “being opened”.

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IV. New Business

- OSWP and Local Health Departments: Generic Aerobic Drip Irrigation (Steven Berkowitz)

A draft generic, non-proprietary aerobic drip proposal (similar in manner to the flow equalization approval) was developed prior to final changes made to the anaerobic drip approval. The draft has been distributed to a stakeholders group for review. The initial approval will be a stand-alone document with the intention that an existing aerobic drip manufacturer would be able to incorporate the generic approval requirements upon request and without having to apply for modification to their approval through the full I & E process. The proposed generic aerobic approval would have elements of a full approval, but would not be a comprehensive approval. The stakeholders would have to make a decision as to the scope of what the generic approval would need to cover. There is a plan to invite all six drip manufacturers to be part of the stakeholders group.

Tom Konsler appointed subcommittee members for the review: Tom Konsler, Cory Brantley, David Lindbo (was volunteered), Harold Kelly; project managers (Steven Berkowitz & Tim Crissman)

- Discussion of Off-Site Systems (Tom Konsler)

There is an interest from Guilford County to see once again whether off-site systems/remote drainfields could have a place as an innovative system approval. Scott Greene (Guilford County Health Department) has expressed an interest in addressing the Committee. A presentation is tentatively scheduled for the December 3rd I & E Committee Meeting. Mr. Greene would like the Committee would look at the application that was submitted several years ago and determine the appropriateness of it in regard to considering off-site systems as innovative systems. The Committee members agreed that it was an issue that warranted addressing given that only parts of such systems were dealt with in the Rules. There have been unsuccessful attempts in the past to address this issue in a draft rule and a draft approval. It was noted that Guilford, Wake and Orange counties have local off-site rules.

V. Status of Pending I and E Applications (Lorna Withrow)

- Aquapoint, Inc.: Application for proposed modifications to currently approved configurations, design/siting criteria, and O&M requirements in IWWS-2002-1; Approval signed w/ Bill Freed allowing the approval to default to the Grade II operator requirement, sent out on list serve, and posted on the OSWP website.
- Delta Ecopod N: Application for Controlled Demonstration; manufacturer is in the process of gathering additional data.
- EZ Treat, Inc.: Application for Innovative Approval; Subcommittee met, manufacturer is on the tentative agenda for the December 3, 2013 I & E Committee meeting.
- Infiltrator Systems, Inc. (ISI): Amended request for modifications to Innovative Approval for the Quick4 Plus Standard LP chamber (IWWS-2010-R1); Manufacturer awaiting comments from the sub-committee.
- Presby Environmental, Inc.: Application for Innovative Approval for Presby Advanced Enviro-Septic (AES) System; Subcommittee appointed

Nancy Deal informed the Committee that the Orenco ProPak Controlled Demonstration approval has been signed after long negotiations about the content of the approval between the Branch and the company.

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VI. Announcements (Tom Konsler)

- Next scheduled meeting date: Tuesday December 3, 2013; Cardinal Room, 5605 Six Forks Road, Raleigh, NC
- 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:

Todd Harrell, Orenco, Inc.

Nick Noble, Orenco, Inc.

Tom Ashton, American Manufacturing Company, Inc.

Doug Lassiter, NC Septic Tank Association

Steve Barry, AQWA, Inc.

Wayne Peyton, Clearstream Wastewater Systems, Inc. *(by telephone)*

Nancy Deal, OSWP

Kevin Neal, OSWP

Trisha Angoli, OSWP

Steven Berkowitz, OSWP

Recording by Joanne Rutkofske, WCC

Minutes by Lorna Withrow, OSWP