



Agenda

TECHNICAL COMMITTEE MEETING MINUTES

Wednesday May 10, 2017

2nd Floor Conference Room

Building 11, 111 Harbor View Avenue

Stamford CT 06902

5:30 p.m.

Daniel Capano	Chairman, Technical Committee
Edward Kelly	Committee Member
Merritt Nesin	Committee Member
William Brink	Executive Director, WPCA
William Degnan	Plant Supervisor, WPCA (absent)
Robert Pudelka	Assistant Plant Supervisor, WPCA
Prakash Chakravarti	Supervising Engineer, WPCA
Edward Kowalski	ARCADIS

1. Call to Order and Roll Call.

D. Capano called the meeting to order at 5:35 pm.

2. Approval of Apr 12, 2017 Technical Committee Meeting Minutes.

E Kelly made the motion to approve the minutes of the meeting for April 12, 2017, second by M Nesin, motion carried 3-0-0.

3. Discussion on possible use of three (3) 440 kW Doosan fuel cells to provide electrical power to the plant, and also provide emergency power to select equipment during loss of utility power, under a purchase power agreement with Doosan Fuel Cell America, Inc.

Since E Kowalski was delayed W Brink opened the discussion on the Doosan fuel cells by stating that Doosan acquired the unit from United Technologies Inc. was aggressively marketing the fuel cell power generators. Fuel cell technology utilizes natural gas to generate power. Doosan would install the fuel cell generators at no cost to the WPCA and under their proposal the WPCA would have to purchase all of the power that is generated at a 1.5 cents less than the market rate for Eversource. The purchase commitment is for twenty (20) years. Doosan would also pay for the natural gas utilized. During periods of low demand the power generated would be fed back to the grid. W Brink also mentioned that the fuel cells cannot meet the demand for high-inrush current for starting higher horse power motors.

D Capano asked if Engineers from Wright-Pierce had reviewed the proposal, W Brink said that they are studying the proposal. E Kelly commented that the green technology aspect of the proposal seems very compelling. D Capano said that he would very much

like to see one of the units of similar the size proposed for Stamford in operation. W Brink said that the Town of Naugatuk has been using the fuel cell in their micro-grid D Capano asked if the Connecticut Department of Energy and Environmental Protection (CT-DEEP) has reviewed the proposal. W Brink said that he has not talked CT-DEEP R Pudelka said that CT DEEP is not very conducive to the idea of fuel cell generators as a backup power supply.

4. Presentation by ARCADIS on the upgrade of the new SCADA system.

E Kowalski of ARCADIS gave the committee a brief progress report on the migration of the SCADA system from Honeywell to an open architecture system. He said that there were few punch list item that they will be working on in the coming weeks such as extraction of data from the Honeywell server, programming the firewall for the internet connection. Overall the cutover has been relatively smooth with a few programming errors in the methanol dosing. D Capano asked if the Synagro system was connected E Kowalski said it was not and will look into tying in the system. Outstanding items include training O&M manuals, generating custom reports. D Capano requested that the wireless system to be reactivated.

5. Discussion on the replacement of No 2 primary clarifier mechanism.

W Brink stated that the No 2 primary clarifier that was installed in 1971 was inspected and evaluated by the manufacturer's representative. The equipment is in bad shape and has to undergo major rehabilitation or replacement. He has received prices quotes for refurbishing the unit from the equipment manufacturer, Ovivo at \$206,000 and for replacement by another manufacture Westech at \$245,000. W Brink said that he intends to hire an Engineering firm to prepare a generic performance specification for the replacement of the mechanism which he believes would cost less than \$10,000, and bid the rebuild/replacement of the primary clarifier mechanism.

6. Update on engineering studies and designs,

P Chakravarti presented the status for each of the projects as below:

a. Wedgemere Road Area Sewers.

Cardinal Engineers are working on the design for the Wedgemere section of the project. They are finishing up with the design of the White Oak Lane and Emerald Lane section of the project. Anticipate going out bid in October, 2017 with construction starting in April 2017.

b. Perna Lane Area Sewers.

The project is with Stamford EPB for approval. Not received any feedback form EPB.

c. Upgrade of UV disinfection.

The agreement with Hazen & Sawyer has been signed. We had the project kickoff meeting on predicating the basis of design report/services.

d. Upgrade of the Raw Sewage Pump Station

Wright Pierce is working on developing the preliminary design report. WPCA Staff has to visit a few treatment plants to evaluate the proposed bar screens and septage receiving units.

e. Upgrade of aeration blowers, modification of aeration basins, dissolved oxygen control, and emergency power generator

Wright Pierce is working on developing the preliminary design report. WPCA Staff has to schedule site visits to evaluate the mixers for the pre anoxic

f. Infiltration & Inflow study.

WPCA has received the corrected bid documents from CDM Smith and the lining work will be bid out soon.

7. Update on construction projects,

P Chakravarti presented the status for each of the projects as below:

a. Replacement of primary sludge force mains.

All the submittals have been approved NAC Industries has not given us a firm date for deliverables for the glass lined pipe.

b. Dyke Lane pumping station upgrade.

The construction permits for the generator and the electrical work inside the building has been separated. The permit for the generator has to go through Zoning approval as part of the Coastal Area Management review.

c. Arc Flash –Electrical preventive maintenance.

Bid documents for the preventive maintenance scope of work have been sent to Purchasing for advertising the bid.

d. Flow distribution to the secondary clarifiers and effluent pumps.

C.H. Nickerson has completed the temporary piping for bypassing the mixed liquor from the West side of post anoxic zone. They have demolished the existing channels to prepare the site for driving sheet piles.

e. Upgrade of the MCC panels in the thickener building.

Industrial Drives and Controls has essentially completed installing the new MCCs, punch list items still remain.

8. Old Business

There was no old business that was discussed

9. New Business

There was no new business to be discussed.

E Kelly made motion to adjourn meeting, second by M Nessin, motion carried 3-0-0.
Meeting adjourned at 7:15 pm.