

**District of Columbia
Water and Sewer Authority**

Board of Directors

**Environmental Quality and
Sewerage Services Committee**

Thursday, April 21, 2011

9:30 a.m.

MEETING MINUTES



Committee Members Present

Bob Hoyt, Chairperson
Joseph Cotruvo
Howard Gibbs
David Lake
Brenda Richardson

DC Water Staff Present

George Hawkins, General Manager
Randy Hayman, General Counsel
David McLaughlin, Director of Engineering
and Technical Services
Linda Manley, Board Secretary

Other Board Members Present

David J. Bardin
Dawn Hawkins-Nixon
Samuel Wynkoop

I. CALL TO ORDER

Mr. Bob Hoyt, Chairperson, called the meeting to order at 9:30 a.m. and after receiving a motion and a second, the Committee voted to immediately convene an Executive Session. The open Committee meeting reconvened at 10:10 a.m.

II. AWTP STATUS UPDATES

1. BPAWTP Performance

Mr. Walter Bailey, Assistant General Manager for Wastewater Treatment reported that March was wetter than the average for the month, with precipitation at 4.4 inches vs. the 3.6 inch historical average. Flows were higher than recently experienced at 326 MGD with a 12-month average of 293 MGD. There were excess flow events which were reported with a proposed "speedometer" style graphic. The Committee expressed some confusion over the graphic design and a Committee member suggested a simpler bar chart format might be preferable and he will propose an alternate design to staff for discussion. Nitrogen compliance was very good, at 4.4 mg/l for the month and an annual discharge of 4.24 million pounds of nitrogen. Biosolids production was 1264 wet tons per day for a 12-month average of 1173 wet tons per day. All permit parameters were

met, and due to the plant's operation for six years without an excursion, DC Water has earned the NACWA platinum award.

III. STATUS UPDATES

1. LID Summit

Mr. Hawkins, presented a summary of the LID Summit held in March, and noted that the proceedings will be posted on the DC Water website. DC Water's current strategy is to seek a modification of the DC Water Consent Decree consistent with LID provisions incorporated into the consent decrees of other cities. Cleveland and Kansas City have language that allows the evaluation of alternatives to tunnel capture systems. DC Water would like to have the same option of evaluating the potential results of LID through modeling and large scale pilot projects to determine if LID is a viable alternative to our proposed Potomac and Rock Creek tunnels. The current tunnel proposal for the Potomac and Rock Creek systems would be a fall-back alternative if the LID pilot projects do not prove successful. A Board member commended Mr. Hawkins for this bold and innovative alternative approach to addressing the CSO issue.

IV. STATUS UPDATES: POTOMAC INTERCEPTOR

1. Potomac Pump Station

Mr. David McLaughlin, Director of Engineering and Technical Services, reported that the testing of the inlet reconfiguration on one pump (rectangular section to round) was not successful in establishing the required firm pumping capacity. Therefore, DC Water will proceed to the next potential modification in the series of increasingly expensive and complicated corrective measures - a pump impeller change. DC Water is aware that the City of Houston has performed tests on a pump designed for a station with a similar configuration as Potomac PS, and the pump, with a similar impeller design to that proposed for Potomac, performed very well. The impeller change will take 4 to 5 months for design, fabrication and installation. In parallel with this effort, staff is working with the General Counsel to prepare a formal proposal to the plaintiffs to the Consent Decree regarding an alternative solution (rerouting flow), should the impeller change not improve performance. Consideration of an alternative is warranted since options at Potomac, if the impeller change is not successful, involve major construction which will take several years and millions of dollars to upgrade and complete.

2. Odor Abatement Project

Mr. McLaughlin reported that construction on the Maryland and DC sites is proceeding on schedule. As for the Virginia sites, approval processes are continuing in anticipation of a June advertisement for construction bids.

V. BIOSOLIDS MAIN PROCESS TRAIN DB CONTRACT

Mr. David McLaughlin updated the Committee on the Biosolids Management Plan Main Process Train design-build (DB) contract which is presented for consideration as an action item at this meeting. The history of the alternative project delivery concept for this project, the selection process, criteria and relative weighting and project benefits were reviewed. Qualifications statements were received from six teams, which were shortlisted to three from which technical and price proposals were received. The process resulted in the recommendation to award this Design Build contract to the Pizzagalli/CDM Joint Venture team on the basis of their highest rated technical proposal (tied with one other team) and lowest cost proposal. A Board member questioned whether all permits have been obtained, and recommended engaging the General Counsel in this effort, if necessary. Mr. Hayman noted that his office had been involved throughout contractor selection and would continue to support the permitting process as necessary. Mr. McLaughlin advised that the construction permits would be obtained as the design is progressed, and that the selected contractor had provided a detailed plan explaining their approach to obtaining these permits. The Committee was very pleased with the positive results of this competitive Design Build procurement.

VI. PRETREATMENT PROGRAM UPDATE

Ms. Elaine Wilson, Supervisor-Pretreatment, presented further information on DC Water's pretreatment program scope and responsibilities and opportunities for revenue generation, as a supplement to information presented last November. Ms. Wilson also described revisions to discharge regulations necessary to meet EPA requirements. An action item was presented for consideration by the Committee to accomplish the changes to the applicable DC Municipal Regulations. A summary of the changes was attached in the handout for Committee information. These changes will also be discussed in the Retail Rates Committee meeting on Tuesday, April 26th. DC Water has regulatory control over industrial discharge sources within DC and those that discharge to the Potomac Interceptor.

VII. ACTION ITEMS – JOINT USE

Mr. McLaughlin presented the following contractual action items for Committee review and discussed the scope of each.

Joint Use:

1. Contract No. 100120, Pizzagalli/CDM Joint Venture GP
2. Contract No. 100210. Cynergy Electric Company, Inc.
3. Contract No. 100220, Corinthian Contractors, Inc.
4. Contract No. WAS-09-009-AB-SM, Polydyne, Inc.
5. Contract No. WAS-08-025-AA-RV, Carter & Carter
6. Contract No. WAS-10-003-AA-GA, M&M Electrical Motors
7. Discharges to Wastewater System Revisions

Non-Joint Use:

1. Contract No. DCFA #442, EA Engineering Science & Technology, Inc.

Committee members raised no objections to either the contract action items or the regulation revision action item and Mr. Hoyt noted they will be recommended to the full Board for consideration.

VIII. ENERGY AUDIT - SUMMARY REPORT

Mr. Ernest Jolly, Senior Special Assistant to the General Manager, reviewed the results of the Energy Audit Project and noted the decrease in energy use at Blue Plains since 2007, some reasons for the decrease, and ideas going forward, including additional power monitoring equipment, HVAC improvements, pump station wet well level modifications, electric motor replacements and the Combined Heat and Power project. Mr. Jolly noted the importance of an “Energy Dashboard” display that would give a visual indication of energy performance to operators in real time. Due to the shortage of time, the presentation had to be cut short, and Mr. Hoyt advised that if any of the Committee members wished to have a continuation of this presentation at the next meeting, they should notify him by e-mail.

IX. EMERGING ISSUES/OTHER BUSINESS

1. Vulnerability Assessment – Status Update

This item was not discussed due to time constraints. It was noted by Joe Cotruvo that the Water Quality and Water Services Committee (following the EQ&SS Committee meeting) would be reviewing this topic.

X. EXECUTIVE SESSION

The Executive Session originally scheduled as Agenda Item X, was held as the first item of the Committee meeting.

XI. ADJOURNMENT

Mr. Hoyt adjourned the Committee at 11:30 a.m.

Follow-up Items

1. Revise excess flow graphic based on suggestions to be provided by Committee
2. Committee members to advise Mr. Hoyt by e-mail if they desire a follow-up of the truncated Energy Audit presentation.