

**MINUTES**  
**OPERATIONS & ENGINEERING COMMITTEE MEETING**  
**JUNE 13, 2023**

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Attendants: Messrs. Cherico, DiSantis, Hurst, Kern, Knapp, Lehman, Moss, Nagle, Willert, and Mesdames Amadio, Bonnett, Caulk, Garner, and Sage.

1. ROLL CALL: Five members of the DELCORA Board of Directors were present at the meeting constituting a quorum.

The following were present: Mike Ewall, Loan T. Lam, and Steve Vinci. There were no other members of the public present.

2. PLEDGE OF ALLEGIANCE: All parties present at the meeting recited the Pledge of Allegiance.

3. BID OPENING: Mr. Kern stated that there were no bid openings at this time.

4. MONTHLY REPORT – DIRECTOR OF OPERATIONS & MAINTENANCE: Mr. DiSantis highlighted certain items in the written report. He stated that there was one NPDES violation at the WRTP that occurred on May 6<sup>th</sup> due to a rain event producing a high flow but the plant was also in partial nitrification during part of May and went into full nitrification about mid-month. Partial nitrification causes a large demand for chlorine to convert the nitrites into nitrates so the chlorine consumption, along with trying to chlorinate a very high flow, led to an instantaneous fecal violation. That particular fecal coliform limit is in place from May through September. Otherwise, May was a very dry month with an average daily flow of 30.14 MGD. He stated that it was a good month regarding incineration with no cake hauled out. Also, both incinerators were in service 77% of the time in May. Polymer and natural gas usage continue to meet operational targets and were lower than last month. Mr. DiSantis stated that there was one reportable emissions incident created by the ongoing issue with the PECO power supply lines and while we are awaiting the installation of the planned solution (SurePower), a temporary solution is being investigated. In addition, some adjustments were made to the variable frequency drives to help alleviate some of these issues with power quality. Mr. DiSantis reported that there were no violations at the remote facilities. Lastly, he stated that trucked waste had a very good month and we continue to stay ahead of budget. Mr. DiSantis had no additional comments to the written report. The Committee had no questions regarding the written report.

5. MONTHLY REPORT – DIRECTOR OF ENGINEERING: Mr. Hurst highlighted certain items in the written report. Regarding the Sewer Maintenance contract, he stated that we are proceeding with modifications to the CSO regulator chambers. This work is part of our Long Term Control Plan that was integrated into our NPDES Permit. Under the Incinerator Maintenance contract, he stated that maintenance work was completed on Incinerator No. 2 including de-slugging and some other internal maintenance. Mr. Hurst noted that the T-28 Construction contract is winding down as the clarifier is on-line and continues to perform well, especially during yesterday's sizeable rain event in the

afternoon. Some miscellaneous cleanup work has begun such as site cleanup, replacing grading in places, and some upgrades to the polymer units. Reporting on the Plant and Facilities Services contract, Mr. Hurst stated that there is a change order on the agenda that will be addressed later, and stated that current work included the purchase of hatches to deal with some safety issues occurring with some of the existing hatches, a pipe repair, some manholes were raised at Bethel and Highland Avenue, some repair work was done at Parker Street, and tank cleaning was done.

Regarding the Long Term Control Plan (LTCP), Mr. Hurst mentioned the letter received from Philadelphia but stated that we have not received a draft agreement from Philadelphia yet so there is nothing definitive to report with respect to the renewal of that agreement; however, the LTCP included the tunnel so now we have begun to evaluate alternatives for the LTCP that do not include this particular tunnel. There have been technical meetings among the team to identify some alternatives that do not include this particular tunnel. Other tunnel options include smaller tunnels, different configurations, as well as some complete non-tunnel options. Work will continue on these options as we wait for clarity from Philadelphia. This impacts the ESA Program as well. The design of the tunnel itself has been completed. The Pump Station Upgrades Design is largely complete and the WRTP Expansion efforts are also on hold. A UV Pilot was done and a final decision will be made when we get some additional data and get a second opinion on the UV performance data received. Regarding the On-Call Services Contract with D'Huy Engineering, Mr. Hurst stated that the Odor Control Master Plan is in draft form and some pieces of that will move into a concept design phase. Under the Outfall and Diffuser Project with Gannett Fleming, he reported that the design is largely complete and ready for permit submissions for working in the river. Permit submissions to the regulatory agencies have begun and are ongoing. He also briefly noted the Regulatory filings as listed on the written report. Mr. Hurst had no additional comments to the written report. The Committee had no questions regarding the written report.

6. MONTHLY REPORT – ENGINEERING ADVISOR: Mr. Lehman highlighted several on-going projects on the written report, which had been provided to all Board members in advance of today's meeting. He stated that changes to the SWMM Model continue based upon changes to the regulator settings that the DELCORA staff last performed during the month of May. He reported that the Metering Program continues to function as anticipated. He also noted that there will be two different versions for the SWMM Model. One with the regulators the way they were before the settings for that time period and then piece it together with the data using the new settings to get an accurate picture in the final report that is submitted as part of the Chapter 94. Mr. Lehman had no additional comments to the written report. The Committee had no questions regarding the written report.

7. CHANGE ORDERS:

- Contract No. TCR-2103-0 – Plant And Facilities Services – Change Order No. 2 – Increase In Contract Amount Of \$1,200,000.00 (MOR Construction Services) (Operating Funds)

Mr. DiSantis stated that this change order covers an increase in item quantities that was not known at the time the contract was put out for bid. A safety evaluation done by Remington and Vernick identified a number of hatches and openings that present safety issues that need to be addressed immediately. This is a significant effort and will probably end up costing about \$2 million.

It was the consensus of the Committee to recommend Board approval of the above contract change order. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

8. REQUEST FOR APPROVAL OF CONTRACT CLOSE-OUT & FINAL PAYMENT:  
Mr. Kern stated that there were no Contract Close-Outs at this time.

9. AUTHORIZATION FOR PROFESSIONAL SERVICES:

- A. CEMTEK Systems – Proposal Dated May 12, 2023 – For Professional Services To Provide CEMS Maintenance Service (Quarterly, Semi-Annual And Annual) – Total Amount Not To Exceed \$10,800.00 (Operating Funds)

Mr. DiSantis stated that we purchased the Continuous Emissions Monitoring System (CEMS) from this company last year and this proposal is for CEMTEK to provide support and service for that system. CEMTEK replaces another company that is currently doing that work but that contract expires June 30, 2023.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- B. CEMTEK Systems – Proposal Dated May 12, 2023 – For Professional Services To Provide Four (4) CGA Gases For One Year's Time – Total Amount Not To Exceed \$6,200.00 (Operating Funds)

Mr. DiSantis stated that CGAs are Certified Gas Audits that are required by regulatory agencies for the CEM System and this proposal provides for the calibration of all the instrumentation that is within the CEM System. CEMTEK provides the specialized gases and they perform the actual audits. To provide more clarity, Mr. Hurst suggested that the proposal description include the words “and to perform the audit”.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- C. Chavond-Barry Engineering – Proposal Dated May 22, 2023 – For Professional Engineering Services For HCl Emissions Retest From 2023 Stack Testing – Total Amount Not To Exceed \$99,000.00 (Operating Funds)

Mr. DiSantis stated that this is only for HCl testing. There was a laboratory sampling collection error on all six samples that invalidated the results for one incinerator and we failed for the test on the other incinerator. We have an average limit of 1.2 that must be maintained for our HCl and we were just over that limit. As a comparison, Covanta's limit is 25 so ours is exceedingly much stricter than Covanta's. This retest will be good for another year until we have to test again. This proposal covers the engineering

services as well as the testing equipment itself and he does not expect the full amount to be expended.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- D. AquaLaw PLC – Proposal Dated May 30, 2023 – For Professional Services To Provide Continued Assistance For The Long Term Control Plan Update, Consent Decree, And Permitting Matters – Total Additional Amount Not To Exceed \$50,000.00 (Operating Funds) (AQUALAW is not affiliated with Aqua PA)

Mr. DiSantis stated that this proposal is for ongoing legal services related to the Consent Decree, permitting, the Long Term Control Plan, and also the Philadelphia Water Department negotiations.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- E. Cityworks, Inc. – Proposal Dated May 8, 2023 – For Professional Services To Provide Annual Software Support And Mobile Licensing For Cityworks GIS System (July 1, 2023 – June 30, 2024) – Total Amount Not Exceed \$35,838.62 (Operating Funds)

Mr. DiSantis stated that this proposal is to provide support for the GIS system that is used to track our sewer maintenance and for mapping of underground assets.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- F. EMA, Inc. – Proposal Dated June 6, 2023 – For Professional Services To Develop A Preliminary Design And Implementation Plan For A Software Extension To The EOPS System – Total Amount Not To Exceed \$16,715.00 (Operating Funds)

Mr. DiSantis explained that EOPs is the data historian for SCADA as well as it keeps all of the calculations of various information, such as tonnages, flows, etc. This proposal is to further advance our electronic logs (E-logs) that are used for DEP and EPA reporting. We want to expand our E-logs. EMA designed and built the system for DELCORA.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- G. Brown And Caldwell – Proposal Dated March 28, 2023 – For Professional Engineering Services To Provide Continued Local Limits Development For The WRTP – Total Additional Amount Not To Exceed \$10,000.00 (Operating Funds)

Mr. Hurst stated that this proposal will provide continued response of EPA comments. EPA administers a local limits or pretreatment program. EPA establishes actual limits for the industries and we are in the process of updating those. The comments from EPA

have been more extensive than planned so this proposal is to supplement the previous contract and support DELCORA in responding to those comments.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- H. Andris Consulting LLC – Proposal Dated June 9, 2023 – For Professional Services For Continued Support For Program Management And Project Delivery Support Associated With Large Capital Programs Currently Planned (Term 7/1/2023 To 7/1/2026) – Total Amount Not To Exceed \$382,500.00 (Capital Funds)

Mr. Kern noted that this a WBE firm.

Mr. Hurst explained that Andris was engaged by DELCORA during the ESA Design process. The principal of this company was with Greeley and Hansen when we were developing the Long Term Control Plan (LTCP) and so has a long history with our LTCP. As we are now reshaping the LTCP, Andris is in a good position to continue to support us through that development. Greeley and Hansen will still play a technical role with respect to modeling and some report writing but Andris will provide overall management. Being a small business, Andris can provide this service at a lower hourly rate. Andris has provided strong support to date.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- I. Environmental Service & Equipment Company – Proposal Dated March 28, 2023 – For Professional Services To Provide Parts For Evaporator Service Inspection, Includes Removal, Re-Assembly, Re-Install, And Final Operation Check Of Unit – Total Amount Not To Exceed \$38,619.00 (Operating Funds)

Mr. DiSantis stated that there are four evaporators that are the original equipment from Wallace and Tiernan, which is no longer in business. Evoqua is now the legacy company and parts are hard to obtain. We want to have the parts on hand first before the inspection is done. Environmental Service & Equipment Company is a local company and is a manufacturer's representative.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

10. AUTHORIZATION TO ADVERTISE FOR BIDS: Mr. Kern stated that there were no Authorizations to Advertise for Bids at this time.

11. AUTHORIZATION TO PURCHASE:

- Edwin Elliot & Company – Quote Dated May 11, 2023 – For Purchase Of Four (4) 36 Inch And One (1) 42 Inch Knife Gate Valve Operators With Hand Stations Through PA COSTARS #016-E23-297 – Total Amount Not To Exceed \$45,925.00 (Capital Funds)

Mr. DiSantis stated that these are motorized valve operators that we want to install on 36 inch and 42 inch valves to eliminate manual turning of the valves. These valves need to be opened and closed during storm events, and operating them remotely is much safer for the employees.

It was the consensus of the Committee to recommend Board approval of the above purchase. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- LDX Solutions – Quote Dated May 25, 2023 – For Purchase Of One (1) Powerplus 480v-Series 6.1 Through A Sole Source Vendor (LDX Quote #QT-00320-REV 1) – Total Amount Not To Exceed \$38,727.00 (Capital Funds)

Mr. DiSantis stated that this is the rectifier for the wet electrostatic precipitator. We have two units in service whenever their respective incinerators are operating and we want to have a spare unit available in case one fails. There is a long lead time for delivery. These original units are now seven years old and have reached about half of their service life.

It was the consensus of the Committee to recommend Board approval of the above purchase. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

- Reiner Pump Systems – Quote Dated June 8, 2023 – For Purchase Of Four (4) Sulzer ABS Submersible Pumps For The WRTP, One (1) Sulzer ABS Drypit Submersible Pump For The Central Delaware Pump Station, And One (1) Sulzer ABS Drypit Submersible Pump For The Muckinipates Pump Station Through PA COSTARS Vendor #359913 – Total Amount Not To Exceed \$625,125.00 (Capital Funds)

Mr. Hurst stated that the first application is for our current sludge mixing system. It mixes the sludge as it feeds the de-watering system before the incineration process. Those tanks are mixed with pumps. The current pumps are putting out a lower flow rate than we need to really get a complete mix of the tanks. We tested one of these slightly larger pumps free of charge and it was able to provide the mix we need. Flow increased about 30% with the same size motor. The other two applications are for the Central Delaware Pump Station and the Muckinipates Pump Station. These were planned for in the Capital Plan and we are beginning to replace pumps in those pump stations. The benefit of using drypit submersibles is that they replace the need for long drive shafts that require very high maintenance. These line shafts are being taken out of these pump stations since they can no longer be serviced or maintained.

It was the consensus of the Committee to recommend Board approval of the above purchase. This item will be placed on the agenda for the June 20<sup>th</sup> Board meeting.

ADJOURNMENT: It was moved by Mr. Knapp, seconded by Ms. Sage, and unanimously carried to adjourn the regular meeting at 4:05 p.m.