

DRAFT MINUTES
Waste-to-Energy Facility Monitoring Group
MEETING

November 16, 2022
Covanta Alexandria/Arlington Waste-to-Energy Facility – Eisenhower Avenue
8:30 a.m. – 11:00 a.m.
Virtual Meeting

The Facility Monitoring Group, City and County Staff, and HDR representatives present for the meeting included Helen Lee, Erik Grabowsky, Philip Pugh, Emily Hughes, Vijetha Huffman, Morgan Routt, Alaeedin Mohamed, William Skrabak, and Dan Domato. Don Cammarata and Kelly McLaughlin attended the meeting from Covanta. This FMG Meeting was held as a virtual meeting.

I. Comments on Agenda

There were no edits made to the agenda. Grabowsky made a motion to approve, Routt seconded. All in favor of approval.

II. Approval of Final Minutes from the August 10th, 2022, Facility Monitoring Group Meeting.

The only edit to the meeting minutes was to remove Vijetha from the attending list, as she did not attend the meeting. With that revision to be made, Grabowsky made a motion to approve, Routt seconded. All in favor of approval.

III. Requisitions for Payment

The requisitions for payment that were submitted for approval totaled \$13,734.95. The sole invoice was the invoice for HDR Engineering, Inc. for the period July 31, 2022, to October 22, 2022, in the amount of \$13,734.95.

Mohamed had received and reviewed the invoice from HDR and had no comments. Grabowsky made the motion for approval. Hughes seconded. All in favor of approval.

IV. Operations and Facility Status

A. Summary of Plant Operations (by Covanta)

McLaughlin provided a brief update on the Plant Operations. McLaughlin discussed the Facility's Environmental and Safety Highlights: There were no environmental exceedances. There were no injuries or incidents during the previous quarter. McLaughlin discussed the Facility's Staffing: Staffing has improved over the past few months, and they currently have full shifts. There are four active open positions requisitions. They are all for Auxiliary Operators, which are currently filled by temporary staff members.

McLaughlin discussed Facility Operations and Maintenance: There was a minor outage on Unit 2 in September and the major outage was performed on Unit 1 in October. A scheduled overhaul was performed on Turbine-Generator 2 in October; however, shortly after returning to service the T-G tripped offline. The T-G remains offline due to damage to the bearings (discussed in more detail below). The target date for bringing the T-G back into service is November 25, 2022.

B. Discussion of Quarterly Report and Facility Performance to Date (by HDR)

Domato discussed the Quarterly Report and Performance Trends. Domato reviewed the deficiency list noting a few items were completed: item 10 (steam valve leaks), item 14 (T-G 2 gland seal), item 19 (hole in boiler sidewall), and item 20 (material build-up on building siding). Three new items were added to the deficiency list: damaged bollard near flue gas stack, leak near Unit 2, and temporary pump and hose into cooling tower basin.

In Q1FY23, the average boiler availability was 94.7%, this is in line with previous fiscal years; this is the lowest period of availability during the year due to the scheduled outages. The average T-G availability was 96.6% during the quarter and the downtime was primarily for the scheduled outage. In Q1FY23, the Facility processed 90,205 tons of waste. See in Chart 1, the monthly MSW processing rate was in line with previous fiscal years (despite the higher downtime in Q1FY23).

In Q1FY23, the ash generation rate was 19.4% which is down 3.2 percentage points from Q1FY22; this is partially due to the new magnet installed in February 2022, as compared to running with a temporary drum magnet in Q1FY22. Current metals recovery increased by 0.6 percentage points compared to last year (Chart 3 Page 10). In Q1FY23, ferrous recovery averaged 3.2% (as a percentage of waste processed), this is more in line with historical data with the new magnet in place of the temporary magnet that was running with lower efficiency of the temporary magnet.

In Q1FY23, the steam production was consistent to the previous Q1s. In Q1FY23, the gross and net electric generation were comparable to the previous fiscal years. See Chart 12 (Page 19), the

Facility averaged 423 net kWh/ton which was consistent with the previous fiscal years. Turbine Steaming Rate at 12.5 lbs/kWh is slightly higher (lower performance) than the previous two fiscal years.

In Q1FY23, the NOx Emissions were around 88 ppm for the Facility average (consistent on all three units). The average ammonia usage decreased to 1.81 lbs./ton with all three units running with LN continuously during the quarter.

V. Covanta Items

A. T-G Failure and Corrective Actions

McLaughlin discussed the recent T-G no. 2 overhaul and subsequent failure following the T-G's return to service. All checks were completed following the overhaul and while bringing the T-G back to full load there was a full plant trip. Following an investigation, the trip was caused by an incorrect relay set point. During the overhaul, the relays that were upgraded by the set points, were set to 16hz instead of 27hz. After the trip, the T-G was damaged when the system lost lube oil during the emergency shutdown. The emergency lube oil system failed to start due to a failed switch (all of these switches have since been replaced). Two of the four T-G bearings were damaged, and the rotors were sent out for repairs. Additionally, T-G no. 1 did not go into isolation mode as it should have; this would have kept the Facility's load and not caused a full plant trip. There will be an upcoming common outage to address these issues for T-G no. 1; Covanta will communicate this plan with the Jurisdictions. T-G no. 2 is expected to be back online by November 25, 2022.

B. Supplemental Waste

There is no update on this matter.

VI. Old Business

A. Battery Education

COG (with McAndrews and Consulting) is working on a campaign. The program is looking for funding. Grabowsky will reach out to Covanta with more information.

B. Residential Drop-off Procedures

Since the last FMG meeting, the wording has been updated on the website. Covanta plans to move the drop box past the scale house which will allow residents to check in first. Covanta

hopes to have updated instructions for the FMG's review ahead of the next meeting.

VII. New Business

A. Energy Justice Network Letter

Covanta is developing a response letter that will be sent out by the Energy Recovery Council (ERC). Additionally, SWANA will be speaking with the EPA about the waste hierarchy and keeping WTE above landfills. Cammarata will also send the FMG the letter from the Virginia State Legislature that touches on some of the items in the EJM letter (in support of WTE). The Jurisdictions want to be kept up to date so that they can keep their legislators informed.

B. Communications following Forced/Unscheduled Outages

Covanta is currently using the 311 system and currently sending emails to the FMG. Ahead of the next FMG meeting, Covanta and the Jurisdictions will have continued discussion about timings and scenarios. The goal is to promote good relations with neighbors, keeping them informed, and being transparent. The Jurisdictions will also update the notification sheet. Covanta wants to set the communications plan ahead of the upcoming December common outage (for the T-G 1 work described above); should not be as loud a forced trip but would still want to provide details.

C. Public Initiatives

Cammarata will send the FMG and HDR a list of public initiatives from the previous quarter. Virtual tours are still available. The FMG asked if Covanta could share the slideshow presentation.

Covanta's Public Outreach Initiatives:

- July 2022 – Students from Pohang University of Science and Technology with the KIC Tech Frontier Lean Startup & Customer Discovery
- Aug 2022 – Two groups from Volunteer America – Breaks with Impact – High School and Middle School
- Oct 2022 – Northern Virginia Community College Environmental Science Class
- Oct 2022 – Donation to the Vola Lawson Breast Cancer Fund in honor of Breast Cancer

Awareness month

- Nov 2022 – Food Distribution with Volunteer America

D. Open Discussion

Annual Report: Open comment from the draft Annual Report was about the outcome of the November 2021 violation. Cammarata explained that the VDEQ provided a request for corrective actions and Covanta responded with a list. Domato will update the Annual Report with this new information. With that change made, Lee made a motion to approve and Grabowsky seconded. All in favor of approval.

On a motion by Lee, seconded by Routt the meeting adjourned at 10:11 a.m.

The next Facility Monitoring Group Meeting is scheduled for Wednesday, February 8, 2023, and will be held as a virtual meeting.