

FINAL MINUTES
Waste-to-Energy Facility Monitoring Group
MEETING

August 8th, 2018
Covanta Alexandria/Arlington Waste-to-Energy Facility – Eisenhower Avenue
8:30 a.m. – 11:00 a.m.

The Facility Monitoring Group, staff, and HDR representatives present included Jeffrey DuVal, Erik Grabowsky, Emily Hughes, Morgan Routt, Alaeedin Mohamed, Alton Weaver, Helen Lee, Kyle Perrin, and Susan Raila with Don Castro joining via phone. Bryan Donnelly and Don Cammarata attended the meeting from Covanta.

I. Comments on Agenda

There were no comments on the agenda.

II. Approval of Final Minutes from the May 2nd, 2018 Facility Monitoring Group Meeting (see attached).

Hughes made a motion to approve the minutes; Grabowsky seconded the motion, and the minutes were approved unanimously.

III. Requisitions for Payment

The requisitions for payment that were submitted for approval totaled \$13,655.62. The invoices consisted of one invoice for HDR Engineering, Inc. for the period April 29, 2018 to July 28, 2018 in the amount of \$13,655.62. Routt made a motion to approve the HDR payment, Grabowsky seconded, and the invoice was approved unanimously.

IV. HDR - Operations and Facility Status

A. Discussion of Quarterly Report and Facility Performance to Date

Castro discussed the quarterly and annual reports. For the 4th Quarter of the year, the facility averaged 1,023 tpd, which is 104.9% of the facility's nominal capacity. On an annual basis, the average tonnage was 959 tpd, which is approximately 98.4% of capacity, and is excellent. For

the quarter, overall, steam production was down, and electrical production was down by 4.7%. The HHV of the waste plunged significantly in June (it was down 4.5% from the prior year), since June was a very wet month. For the entire year, the amount of waste processed remained similar to prior years, and steam production was up slightly, while electrical production was down very slightly (0.3%). The amount of ash produced was down significantly, going from being “very good” to “excellent”, and according to Covanta, that was due to some operational changes made to the ferrous recovery system in conjunction with good water management of the ash. It was noted that the ash now goes to the King George Landfill where it is being stockpiled for future processing. Donnelly noted that new probes were installed to monitor the amount of water in the ash. When the probes indicate a certain level of water, they reduce the water used to suppress dust. The significant increase in ferrous recovery was also noted, but no specific rationale was provided. It was also noted that the HHV of the waste had plunged during the quarter, but on average, over the year, it was about 5,000 BTUs/lb. Grabowsky asked if Covanta ever did waste characterization studies, and Donnelly responded that they haven’t done anything at the site, but they have done some studies at the corporate level.

Castro then pointed out Chart 13 of the report, which shows a deterioration of the turbine generator over the past 6-months or so, where it takes more steam to produce a kWh of electricity. The TGs typically become less efficient over time, but this gets corrected when a major overhaul is undertaken. Donnelly noted that hopefully this will improve after the major overhaul, scheduled for 2019. When asked if the missing blade (previously discussed) would be replaced, Donnelly responded that it would not be replaced, that it was not something minor, and that the other TG was the one that was primarily used. Donnelly pointed out that some steam is pulled off to heat wet waste, and Castro noted that would not explain the deterioration shown on Chart 13. Grabowsky said that the missing blades should be replaced before 2038, when the facility (and TGs) are returned to the Jurisdictions.

Perrin then went through the deficiencies from his inspection of the prior day. The items that were closed out and had been repaired included, #4, the ceiling panels above the boilers, #8 the damaged curbing on the west side of the cooling towers, #10, the fencing on the northeast corner of the property, and #11, the cooling tower stair treads. Two new deficiencies were noted, however, one being an emergency light that is out, and some cosmetic damage to an underpass. Perrin also noted some new items that had been installed, including new LED lighting above the refuse pit, new access platforms, and a platform beneath the condensers. He also mentioned that there were no outage materials lying around, since things had been cleaned up. Outages will be scheduled in

September for Boiler No. 3, in October for Boiler No. 2, and in November of 2019 for TG No. 1, when the LN system will be installed, and in November 2020 for TG No. 2.

Weaver mentioned a safety item at the facility, where there was a car accident at the residential drop-off, where a truck hit a car leaving the site. He noted that there have been a number of near misses with cars leaving the drop-off site, where there is no divider down the road. He requested that Covanta make it clearer that it is a two-way road leaving the area.

V. Covanta Items

A. Update Costs/Operational Issues with LN system

Cammarata said he was hoping to have the operating costs of the LN system, but would have them before the next meeting. They wanted to review what the costs were at the Fairfax facility. Grabowsky asked how Covanta was determining the incremental costs that would be attributed to just the LN system. Cammarata responded that they would walk through how it would be estimated, and try to make it clear to the FMG. There would be more tube repairs, an increase in ammonia usage, increased Inconel, and they would need to make a judgment as to what is usual, and what is due to the LN system. Cammarata clearly stated that there will be no capital cost obligation for the Jurisdictions, as that will be Covanta's responsibility. Grabowsky pressed him as to why the LN system was selected, and Cammarata pointed to the RACT analysis that had been done. DuVal pointed out that it's the FMG's responsibility to be responsive to the taxpayers, so they need to understand why they need to go back and adjust their rates for waste disposal. Cammarata said that he would bring in someone more knowledgeable to explain it all. He noted that the LN technology was specified in the RACT and the permit application, and VaDEQ is in the final steps of their permitting process. Grabowsky further stated that early involvement in the process is much better than late involvement.

B. Covanta Discussions with VaDEQ on Steaming Rate

Cammarata indicated that VaDEQ is prioritizing the Low NOx work, so discussions on increasing the steaming rate have only taken place on an informal basis.

C. Ash

Movement of the ash generated at the facility to the King George Landfill for the purpose of testing out a mobile processing unit has previously been discussed. DuVal requested that he

would like to see the processing unit, and understand how it works, and how it performs. Grabowsky asked about the transportation time to King George Landfill, and Cammarata responded that it's a couple of hours, but they are going during off-peak hours.

D. Supplemental Waste

As previously noted, the type of supplemental material continues to be the same, primarily documents requiring destruction and pharmaceuticals. Deliveries were: 1,391 tons in May, 1,161 in June and 1,013 in July.

VI. Old Business

A. Air Quality Report/ Eisenhower West Plan Implementation Update

DuVal had no update from the prior meeting, but thanked Covanta for their summary memorandum on why raising the stack height could not be done.

VII. New Business

A. Legislative Issues

There were no legislative issues to discuss.

B. Public Initiatives

Covanta provided a list of public outreach since the last meeting, which included the following:

- May 2 – hosted a tour for Department of Justice representatives to witness the destruction of DEA prescription take-back materials.
- June 6 – Kevin McGunnigal participated in a local emergency planning committee meeting on behalf of Covanta.
- June 20 – the Facility hosted over 100 haulers with hot dogs, soft drinks, chips and cookies for the 2018 Hauler Appreciation Day.
- July 3 – hosted a tour for David Kurtz, Lisa Goldberg and 6 additional representatives from the City of Alexandria.
- July 31 – hosted a tour for representatives from Harvard University – NSF I-Corps.

At the end of the meeting DuVal mentioned nearby bridge restrictions, which may impact some trucks going to the facility. Signs have already gone up. Grabowsky thanked Covanta for the tour they provided for two County Board members. DuVal mentioned four new council members who will want a tour of the facility as well. Cammarata mentioned that he will document and update information on the LN system in a letter to DuVal.

On a motion by Grabowsky, seconded by Roult, the meeting adjourned at 10:13 a.m.

The next Facility Monitoring Group Meeting is scheduled for Wednesday, November 14th, 2018 at the Covanta Facility.