

Covanta Essex Company

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September 1, 2023

Mr. Jeffrey Meyer, Manager Division of Air Enforcement Bureau of Air Compliance & Enforcement - Northern 7 Ridgedale Avenue Cedar Knolls, NJ 07927

Subject:

Essex County Resource Recovery Facility

Program Interest (Title V) Number 07736

NEA200001-07736 - Administrative Consent Order

Progress Report #18

Dear Mr. Meyer:

On behalf of Covanta Essex Company and in accordance with the Item #17 under the above referenced Administrative Consent Order (ACO) NEA200001-07736, attached is Progress Report #18 explaining the status of Covanta Essex Company's compliance with the Compliance Schedule required by the ACO.

If you have any questions or need additional information, please contact Patricia Earls at 973-817-7322 or pearls@covanta.com.

Sincerely,

Patricia Earls

New Jersey Reginal Environmental Manager

Attachments

Mr. Jeffrey Meyer Page 2

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this letter and all attached documents and, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant civil and criminal penalties, including the possibility of fine or imprisonment or both, for submitting false, inaccurate, or incomplete information."

Giberto Nogueira

Facility Manager

Sep 01, 2023

Covanta Essex Company, PI #07736

Progress Report #18

NEA200001-07736 – Administrative Consent Order, Item #17

#### A. Identification of Site and Reference to ACO

Covanta Essex Company, PI #07736 Administrative Consent Order (ACO) NEA200001-07736

## B. Status of Permitting and Planning Approvals, and any work at the site and progress to date

#### Status of Permitting and Planning Approvals:

Other than the Title V Operating Permit Renewal (BOP170001) and the Solid Waste Operating Permit Renewal (RRF200001), there are currently no other permitting or planning approvals currently pending or in progress related to the requirements of the ACO.

Work at the site and progress since submittal of Progress Report #17 on June 29, 2023:

- Implementation of the Communications and Community Engagement Plan is ongoing. The latest Open Meeting was held in person on June 15, 2023, from 5 pm to 7 pm at the Blue Print Café on Raymond Boulevard in Newark. Invitations to the meeting were emailed to individuals on our Open Meeting contact list and the invitation was alos published in the Luso Americano Portuguese newspaper in Newark, the Star Ledger, and the Latino Street Newspaper which covers Essex, Passaic, Hudson, Union, and Bergen counties in NJ as well as Brooklyn, Queens, and Staten Island, NY.
- On August 17, 2021, Covanta Essex Company also posted a Hotline number on the Covanta Essex website. The Hotline remains available 24 hours per day, 7 days per week and allows the public to contact Covanta to obtain the latest information on facility incidents or announcements. The Hotline has the capability to speak to residents in English, Spanish, and Portuguese. Since the hotline was established, there have been no calls received from the public to the hotline.
- The Response to Comments document for the AO-25 public hearing held via a Zoom webinar on November 16, 2022, is still in progress. There were an estimated 105 comments received during both the hearing and public notice period that need to be included in the document along with Covanta responses.

# C. Difficulties or problems encountered during the reporting period, and actions taken to rectify any difficulties or problems

There have been no difficulties encountered during this reporting period.

#### D. Activities planned for the next reporting period

Activities planned for the next reporting period are as follows:

 Covanta will continue to work on the Response to Comments document referenced above for submittal to NJDEP's OPPN pursuant to Administrative Order AO-2021-25 for the Essex County Resource Recovery facility.

## E. The required and actual completion dates for each item required by this ACO

See the updated table, included as Attachment 1 to this report, that lists action items required by the ACO along with required due dates and actual completion dates where applicable. The only action item that remains open is the incorporation of the purple plume mitigation procedures into the Title V Operating Permit renewal and the Solid Waste Operating Permit renewal which are both pending with the NJDEP.

## F. An explanation of any non-compliance with the compliance schedule

There are no instances of non-compliance with the schedule.

## G. Evaluation of all corrective measures implemented to date

Covanta Essex Company continues to implement our Community Outreach efforts and enhanced tipping floor inspection procedures to prevent iodinated waste from being combusted in the boilers. The successful identification of the source of the iodinated waste believed to have caused the purple plume events in 2019 and 2020, and subsequent permanent re-direction of that waste to another non-Covanta disposal facility, has resulted in no further purple plume opacity events at Covanta Essex Company since April 7, 2020.

Going forward, Covanta Essex Company hosts two Open Meetings per year. Each December, the Open Meeting is held virtually to avoid weather issues and allow for a greater level of attendance as observed during the December 2020 and December 2021 meetings. Each June, the Open Meeting is an in-person event held either at the facility or at the Blue Print Café on Raymond Boulevard in Newark which is within a mile of the facility.

As part of greater transparency with the local community, Covanta Essex Company has implemented an additional notification procedure whereby the Ironbound Community Corporation (ICC) is contacted by phone and email of any emission exceedance events at the facility. Ms. Maria Lopez-Nunez, who is the Deputy Director, Organizing and Advocacy for the ICC, is notified of each event. Efforts have been made to get other organizations and local residents to sign up for the mailing list on our webpage to receive notifications of facility events, but no sign ups have been received to date from these groups. We will continue these efforts during the Open Meetings and all correspondence from Covanta.

In 2018, Covanta Essex installed 10 HD digital cameras on the tipping floor. These originally included 2 cameras with additional pan, tilt and zoom (PTZ) capability. In 2019, after the increase in purple plume events, 2 of 10 HD digital cameras in the overhead location in front of Bays 2 and 13 were replaced with the PTZ cameras for a total PTZ capability for 4 of 10 cameras. This PTZ capability allows for greater visual observation of loads. All recorded video footage by the cameras is stored and available for review for up to 40 days.



# **Covanta Essex Company ACO Requirements**

Requirement	Description	Deadline	Required Due Date	Actual Completio Date
	COVANTA ESSEX COMPANY ("COVANTA") shall hire an			
	independent public relations consultant or other similarly			
	qualified consultant to develop a formal public outreach			
	program and/or review and supplement as necessary,			
	COVANTA's existing program if one either formally or			
	informally exists. A plan, detailing the program, shall be			
	developed and shall include, but not be limited to,			
	procedures to provide timely updates on any operational			
	upsets that result in permit excursions, periodic notifications			
	to local community groups, including electronic and other			
	agreed to forms of communication and the establishment of	Marilet 20 celes de c		
	a website link. COVANTA shall reach out to local community	Within 30 calendar		
Phase I a)	groups to determine notification schedules and deliverables	days of effective date of ACO	11/0/2020	11/6/2020
Pilase i a)	for purposes of planning and program development.	date of ACO	11/9/2020	11/6/2020
	The plan and program shall also provide that COVANTA			
	conduct a community outreach event to communicate with			
Phase I b)	local community groups on a bi-annual basis.	Bi-annual	Ongoing	12/16/2021
•			5 5	
	COVANTA shall complete and submit the plan to the	Within 90 calendar		
	Department for comment.	days of effective		
Phase I c)		date of ACO	1/7/2021	1/7/2021
		Within 14 calendar		
		days of addressing		11/16/2021 - Pla
	Within fourteen (14) calendar days after addressing any	NJDEP comments		implementation
_, ,	modifications to the plan, <b>COVANTA shall initiate the</b>	on Community	/ /	was already in
Phase I c)	planned program.	Outreach plan	11/16/2021	progress
	COVANTA shall hire an independent waste operations			
	consultant to review and develop new protocols or supplement as necessary, COVANTA's existing waste			
	receipt, inspection and handling protocols. Protocols shall	Within 30 calendar		
	include but are not limited to items listed below under Phase	days of effective		
Phase I d)	I d)i through v.	date of ACO	11/9/2020	11/6/2020
i nase i aj	i aji dirodgii vi	date of rico	11/3/2020	11/0/2020
	Procedures to increase education and outreach to all			
	customers and haulers via direct communications with	Within 90 calendar		
	responsible entities and printed messaging on all invoice bills	days of effective		
Phase I d)i	regarding acceptable/prohibited waste types.	date of ACO	1/7/2021	1/7/2021
	Specific procedures to address iodinated wastes including			
	methodologies to identify potential generators/sources of			
	these wastes, development of proactive steps to ensure			
	these wastes are not included in the waste streams coming to			
51	the facility and inspection/interception protocols to ensure	days of effective	4 /7 /0004	4 /7 /2024
Phase I d)ii	these waste types are not processed through the facility.	date of ACO	1/7/2021	1/7/2021
	As a potential measure for enhancing COVANTA's iodine			
	waste inspection/interception protocols, <b>lodine monitors</b>			
	shall be evaluated for their potential effectiveness to			
	monitor vapor phase iodine. The evaluation shall be	Within 30 calendar		
	submitted to the Bureau of Air Monitoring within thirty (30)	days of effective		
Phase I d)ii	calendar days of the effective date of this ACO.	date of ACO	11/9/2020	11/6/2020

				Actual Completion
Requirement	Description	Deadline	Required Due Date	Date
		No required		
	Response to NJDEP comments on iodine monitor evaluation	deadline for		. / . /
	received on 12/11/20	response	NA	4/6/2021
		No required		Call held on
	Response to NJDEP comments on iodine monitor evaluation	deadline for		6/29/21 to discuss
	received on 5/18/21	response	NA	comments
	Submittal of Halogenated Waste Pollution Prevention Plan			
	report to NJDEP by July 30, 2021 pursuant to agreement			
	made on call on 6/29/21	7/30/2021	7/30/2021	7/29/2021
	If the Department deems that the monitors are effective in			
	monitoring vapor phase iodine, the monitors shall be	Within 60 calendar		
	installed, in accordance with Department review and	days of effective		
Phase I d)ii	approval, within 60 calendar days of such approval.	date of ACO	NA	NA
	Installation of Digital Cameras at appropriate locations throughout the facility to monitor waste streams being			
	tipped in the transfer house and being conveyed into the	Within 90 calendar		
	boilers. The Digital Cameras should have recording capability	days of effective		
Phase I d)iii	and data retention that can record for 30 days.	date of ACO	1/7/2021	1/7/2021
	Additional <b>dedicated training</b> to employees responsible for 1) monitoring truck deliveries and unloading and 2) operating the grapples used to mix waste in the pit and transfer waste	Within 90 calendar		
DI 1 . 1):	from the pit to the feed hopper for each boiler, to train the	days of effective	4 /7 /2024	4 /7 /2024
Phase I d)iv	employees to identify inappropriate waste material.	date of ACO	1/7/2021	1/7/2021
Phase I d)v	Enhanced employee training program to ensure compliance with COVANTA's Solid Waste and Air Permits, applicable Best Management Practices, and procedures for identifying and preventing iodine from entering the Facility.	Within 90 calendar days of effective date of ACO	1/7/2021	1/7/2021
Phase I e)	Within ninety (90) calendar days of the effective date of this ACO, excepting the lodine monitor evaluation noted in d)ii. above, COVANTA shall provide the protocols and procedures outlined above for Department comment.	Within 90 calendar days of effective date of ACO	1/7/2021	1/7/2021
	Within fourteen (14) calendar days after addressing any modifications to the protocols and procedures, COVANTA shall implement same. COVANTA is encouraged to proactively implement any enhanced protocols and procedures outlined above prior to the required 90-day due	Within 14 calendar days of addressing NJDEP comments on Waste Receipt, Inspection and		
Phase I e)	date	Handling protocols	5/7/2022 (Saturday)	5/9/2022
	Identification and estimation of air pollutant emissions and the air dispersion modeling of the impacts of the identified purple plumes shall be performed by an independent third party, and reports containing the air dispersion modeling results shall be submitted to the Department detailing the estimated potential health impacts associated with the purple plume events. Modeling shall include the impact of iodine associated acid gases with an estimation of emissions. Modeling reports shall be provided to the DEP by a qualified			
	thirdparty modeling expert acceptable to the Bureau of	Within 45 days of		
Phase II a)	Evaluation and Planning.	protocol approval	7/23/2021	7/20/2021

				Actual Completion
Requirement	Description	Deadline	Required Due Date	Date
	Prior to conducting and modeling or health risk assessment			
	COVANTA ESSEX COMPANY shall provide detailed estimates			
	of all emissions associated with the purple plumes			
	including, but not limited to, iodine and other associated			
	acid gases and, the methodologies used to estimate the	Within 45 calendar		
	amount and duration of the emissions within 45 calendar	days of effective		
Phase II a)1.	days of the Effective Date of this ACO.	date of ACO	11/23/2020	11/19/2020
	Within 90 calendar days of the Effective Date of this ACO but			
	prior to conducting and modeling or health risk assessment			
	COVANTA ESSEX COMPANY shall submit a written protocol			
	that is prepared by an independent third party for DEP			
	approval to the Bureau of Evaluation and Planning that is			
	consistent with a) Technical Manual 1002 Guidance on			
	Preparing an Air Quality Modeling Protocol b) Technical	Within 90 days of		
	Manual 1003 Guidance on Preparing Risk Assessment for Air	effective date of		
Phase II a)2.	Contaminant Emissions.	ACO	1/7/2021	1/7/2021
		Within 60 days of		
	Response to NJDEP comments on air quality modeling	receipt of		
	protocol received on 2/26/21	comments	4/26/2021	4/21/2021
	Once reviewed and approved by the Department, an			
	independent third party shall conduct the modeling and risk			
	assessment consistent with the protocol approval and	Within 45 calendar		
	submit results within 45 calendar days of Department	days of protocol		
Phase II a)3.	approval.	approval	7/23/2021	7/20/2021
	If upon completion of DEP's review of the modeling and risk			
	assessment identified in Phase 2, Paragraph a.3 of this ACO,			
	there are verified findings that the emission of the purple			
	plumes caused a non-negligible health impact (See NJDEP			
	Division of Air Quality Technical Manual 1003) to the public,			
	Covanta shall disclose the findings to the public. In doing so,	Within 5 days of		
	Covanta is encouraged to include posting the findings on its	receiving non-		No non-negligible
	website. Covanta will disclose the non-negligible health	negligle health		health impacts
Phase II a)4.	impact within 5 days of receiving the verified findings.	impact results	NA	identified
				Modification of
				O&M manual to
				include procedure
	A mitigation plan shall be submitted to the Department for	Plan shall be		was submitted in
	inclusion into COVANTA ESSEX COMPANY's Solid Waste and	submitted upon		response to SW
	Title V permits. The mitigation plan shall consider findings	approval by the		Operating Permit
	from the evaluation of waste generators and how tipping	Department of the		NOD on 1/10/22
	floor procedures can be adjusted to improve a visual	protocols and		Response to secon
	assessment of waste deliveries. Upon approval, the	procedures		technical NOD
	mitigation plan shall be referenced in the pending Title V	required to be		submitted on
	Operating Permit renewal (BOP170001) under review by the	submitted under		5/9/22. This will
	Department and shall be incorporated into the renewal of the	Phase I e) within 90		also be
	current Solid Waste Facility Permit (RRF190001) which	days of effective		incorporated in th
Phase II b)	expires February 23, 2021.	date of ACO	1/10/2022	Title V renewal.

				Actual Completio
Requirement	Description	Deadline	Required Due Date	Date
	COVANITA FOOTIV COMPANY I. II			
	COVANTA ESSEX COMPANY shall provide a written report			
	detailing efforts made at the facility located in Lancaster PA			
	and operated by Covanta Lancaster, Inc. The report shall			
	include information that explains the formation of purple	Within 60 calendar		
	plumes including the estimated iodine feed rate where the	days of effective		/
Phase II c)	creation of a plume event has been made.	date of ACO	12/8/2020	12/7/2020
	All reports submitted to the Department shall be made			
	available on COVANTA ESSEX COMPANY's website within	Within 1 week of		
	one week of being submitted to the Department. This	submittal of any		
	requirement shall exclude the report required and identified	required report to		Completed as
Item 14	in Phase II, paragraph c.	NJDEP.	Ongoing	applicable.
	COVANTA ESSEX COMPANY shall submit progress reports to			
	the Department by the first calendar day of every other			
	month beginning 30 calendar days from the Effective Date			
	of this ACO. Each report shall explain the status of COVANTA			
	ESSEX COMPANY's compliance with the Compliance Schedule	First calendar day of every other month beginning 30 calendar days from the effective date of ACO.		
	required by this ACO and shall include, but not be limited to,		11/1/2022	11/1/2022
	the following:			
	A. identification of the site and reference to this ACO;			
	B. the status of permitting and planning approvals, and any			
Item 17	work at the site and progress to date;			
	C. difficulties or problems encountered during the reporting			
	period, and actions taken to rectify any difficulties or			
	problems;			
	D. activities planned for the next reporting period;			
	E. the required and actual completion dates for each item			
	required by this ACO;			
	F. an explanation of any non-compliance with the compliance			
	schedule; and			
	G. evaluation of all corrective measures implemented to			
	date.			
Item 18	In settlement of the violations cited in the above findings,	Within 30 calendar days of effective date of ACO	11/9/2020	
	COVANTA ESSEX COMPANY shall pay a penalty of \$24,400			
	(Twenty Four Thousand, Four Hundred Dollars) by check			11/5/2020
	made payable to the "Treasurer, State of New Jersey" and			
	remitted to the Division of Revenue at the address stated			
	on the enclosed invoice(s) within thirty (30) calendar days			
	of the Effective Date of this ACO.			