New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 130002

Description of Modifications: Renewal of 5 year title 5 permit for facility Camden County Energy recovery Associates LP.
Program Interest Number 51614
Plant Loaction Morgan Blvd & I676

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Camden County Energy Recovery Associates I **Facility ID (AIMS):** 51614

Street Address: 600 MORGAN BLVD
CAMDEN, NJ 08104

Mailing Address: 600 MORGAN BLVD
CAMDEN, NJ 08104

State Plane Coordinates:

X-Coordinate:	318,966
Y-Coordinate:	393,642
Units:	Feet
Datum:	NAD83
Source Org.:	DEP-Program
Source Type:	DEP Program Database

County: Camden

Location Description: I-676 and Morgan BLVD

Industry:

Primary SIC:	
Secondary SIC:	
NAICS:	562213

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization:
Name: Patrick J. Friscia
Title: Environmental Specialist
Phone: (856) 757-6305 x
Fax: (856) 966-7990 x
Other: (215) 833-8635 x
Type: Mobile
Email: pfriscia@covanta.com

Org. Type: Corporation
NJ EIN: 22218299000

Mailing Address: 600 Morgan Blvd
Camden, NJ 08104

Contact Type: BOP - Operating Permits

Organization:
Name: Patrick J. Friscia
Title: Environmental Specialist
Phone: (856) 757-6305 x
Fax: (856) 966-7990 x
Other: (215) 833-8635 x
Type: Mobile
Email: pfriscia@covanta.com

Org. Type: Corporation
NJ EIN: 22218299000

Mailing Address: 600 Morgan Blvd
Camden, NJ 08104

Contact Type: Environmental Officer

Organization:
Name: Patrick J. Friscia
Title: Environmental Specialist
Phone: (856) 757-6305 x
Fax: (856) 966-7990 x
Other: (215) 833-8635 x
Type: Mobile
Email: pfriscia@covanta.com

Org. Type: Corporation
NJ EIN: 22218299000

Mailing Address: 600 Morgan Blvd
Camden, NJ 08104

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: General Contact

Organization:
Name: Patrick J. Friscia
Title: Environmental Specialist
Phone: (856) 757-6305 x
Fax: (856) 966-7900 x
Other: (215) 833-8635 x
Type: Mobile
Email: pfriscia@covanta.com

Org. Type: Corporation
NJ EIN: 22218299000

Mailing Address: 600 Morgan Blvd
Camden, NJ 08104

Contact Type: On-Site Manager

Organization:
Name: Richard Harrington
Title: Facility Manager
Phone: (856) 757-6301 x
Fax: (856) 966-7990 x
Other: ( ) - x
Type:
Email: rharrington@covanta.com

Org. Type: Corporation
NJ EIN: 22218299000

Mailing Address: 600 Morgan Blvd
Camden, NJ 08104

Contact Type: Responsible Official

Organization:
Name: Richard Harrington
Title: Facility Manager
Phone: (856) 757-6301 x
Fax: (856) 966-7990 x
Other: ( ) - x
Type:
Email: rharrington@covanta.com

Org. Type: Corporation
NJ EIN: 22218299000

Mailing Address: 600 Morgan Blvd.
Camden, NJ 08104

Camden County Energy Recovery Associates LP (51614) Date: 6/1/2018

New Jersey Department of Environmental Protection
Facility Profile (Permitting)

1. Is this facility classified as a small business by the USEPA?	No
2. Is this facility subject to N.J.A.C. 7:27-22?	Yes
3. Are you voluntarily subjecting this facility to the requirements of Subchapter 22?	No
4. Has a copy of this application been sent to the USEPA?	No
5. If not, has the EPA waived the requirement?	No
6. Are you claiming any portion of this application to be confidential?	No
7. Is the facility an existing major facility?	Yes
8. Have you submitted a netting analysis?	No
9. Are emissions of any pollutant above the SOTA threshold?	Yes
10. Have you submitted a SOTA analysis?	No
11. If you answered "Yes" to Question 9 and "No" to Question 10, explain why a SOTA analysis was not required	Title V Renewal
12. Have you provided, or are you planning to provide air contaminant modeling?	No

Camden County Energy Recovery Associates LP (51614)

Date: 6/1/2018

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	Admin Bldg Heater (natural gas)	Fuel Combustion Equipment (Other)	Admininstration Building	0.014	0.123	0.052	0.052	0.015	0.015			
IS2	20,000 gal #2 Fuel oil storage tank	Storage Vessel		0.005								
IS3	Cooling Tower (<50lb/hr chemical additives)	Other Equipment						0.001	0.001			
Total				0.019	0.123	0.052	0.052	0.016	0.016	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Division of Air Quality

Attachment to the RADIUS Air Operating Permit Renewal Application

Submittal Date: 06/04/2018

Facility Name: Camden County Energy Recovery Associates LP

PI#: 51614

This package must be submitted as an attachment to the RADIUS Air Operating Permit Renewal Application. The forms contained in this package must not be altered. Use of any non-standard forms will require resubmittal of the renewal application.

New Jersey Department of Environmental Protection
401 East State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02, Trenton, NJ 08625-0420

Operating Permits Helpline 609-633-8248

Revised Feb 26, 2018

Table of Contents

Applying for an Air Operating Permit Renewal

This summary was prepared to assist you in renewing an operating permit. To continue lawful operation of a facility that has obtained an approved operating permit, a permittee must initiate the renewal of the operating permit by submitting a timely and administratively complete permit application. A complete operating permit renewal application consists of the RADIUS Air Operating Permit Renewal application forms and all forms contained in this package, along with any supporting documents (if needed).

1. **Timely**
   To be considered timely pursuant to N.J.A.C. 7:27-22.30(c), the Department must receive an administratively complete renewal application at least 12 months prior to expiration of the operating permit. The applicant is encouraged to voluntarily submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies in the application can be addressed prior to the application due date. Only applications, which are administratively complete by the application deadline, will be eligible for coverage by an application shield.

2. **Administratively Complete**
   To be deemed administratively complete pursuant to N.J.A.C. 7:27-22.30(d), an operating permit renewal application must include all information requested in the RADIUS Air Operating Permit Renewal application forms and all forms contained in this package.

3. **Application Shield**
   The Department will grant an application shield when a timely and administratively complete application is received pursuant to N.J.A.C. 7:27-22.30(g). An application shield grants the right to operate the facility upon the expiration of its operating permit. If an operating permit has expired, the conditions of the operating permit remain enforceable until the operating permit is reissued. Unless a facility obtained an application shield, the right to operate the facility terminates upon the expiration of its operating permit pursuant to N.J.A.C. 7:27-22.30(i).

4. **Permit Changes During Renewal Process**
   Minor changes, such as those that would qualify for a seven-day-notice change or administrative amendment, may be made with the renewal pursuant to N.J.A.C. 7:27-22.30(d). Significant changes, such as those qualifying for a minor or significant modification, must be submitted as a separate permit application. The Department at its discretion may include approval of these proposed changes along with the approval of the renewal application.

5. **New HAP Reporting Thresholds**
   Pursuant to N.J.A.C. 7:27-22.30(l), for any operating permit expiring on or after February 12, 2021, HAP emissions from a source operation that equal or exceed the reporting threshold specified in N.J.A.C. 7:27-17.9(a) must be included during this operating permit renewal process. Any HAP that is not authorized in the operating permit in effect must be included through the submittal of a permit modification application pursuant to N.J.A.C. 7:27-22.23 or N.J.A.C. 7:27-22.24 as applicable.

The forms contained in this attachment must not be altered. Use of any non-standard forms will require resubmittal of the renewal application.

Section 1
Compliance Requirements

A. Compliance Assurance Monitoring (CAM) Applicability Determination

EPA developed 40 CFR 64 (Compliance Assurance Monitoring or "CAM") in order to provide reasonable assurance that facilities comply with emission limitations by monitoring the operation and maintenance of their control devices. In general, CAM applies to emission units that meet all of the following conditions:

1. The emission unit is located at a major source for which a Title V permit is required;
2. The emission unit is subject to an emission limitation or standard for a specific contaminant;
3. The emission unit uses a control device to achieve compliance with that specific contaminant's federally enforceable limit or standard;
4. The emission unit has potential pre-control or post-control emissions (of that specific contaminant) of at least 100% of the major source amount (see 40 CFR 64.2 - "Major facility"); and
5. The emission unit is not otherwise exempt from CAM (for exemptions, see 40 CFR 64.2(b)).

To learn more about the CAM program and for guidance on how to prepare a CAM plan, check EPA's website: https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring.

After reviewing the information above, check the following boxes as applicable:

☐ **NO**, my facility **does not** have any emission units subject to CAM requirements.

☑ **YES**, my facility **does** have one or more emission units subject to CAM requirements, and

- ☑ A CAM plan is provided with this operating permit renewal application.
- ☐ A CAM plan will be submitted during the technical review of this renewal application.

B. Health Risk Assessment

1. Consistent with N.J.A.C. 7:27-22.3(cc), the Department will review each operating permit renewal application to ensure that emissions of Hazardous Air Pollutants (HAPs) do not pose a public health risk.

2. After receipt of the renewal application, the Department will notify applicants if a Facility-Wide Risk Assessment must be performed. A plot plan and air dispersion modeling protocol will be required in that case.

3. Previous Facility-Wide Risk Assessment, additions and changes in toxicity values or standards, and changes in the air model and/or the facility's location (in an Environmental Justice area, near a sensitive population etc.) will determine the need for health risk assessment.

C. Acid Rain Program

To learn more about Acid Rain Program, check EPA's website: https://www.epa.gov/airmarkets/acid-rain-program.

Check the following boxes as applicable:

☑ **NO**, this facility **is not subject** to the Acid Rain Program, codified at 40 CFR 72.

☐ **YES**, this facility **is subject** to the Acid Rain Program, codified at 40 CFR 72, and

- ☐ There have been no changes affecting my facility's Acid Rain Permit and a renewal application is provided with this operating permit renewal application.
- ☐ There have been changes affecting my facility's Acid Rain Permit and a revised/updated application is provided with this operating permit renewal application.

D. N.J.A.C. 7:27-18 Netting Analysis and General Operating Permit Determination

Air permit applications requesting air emissions increases are required to include a netting analysis to determine if the resulting net emission increase at the facility constitutes a significant net emission increase pursuant to N.J.A.C. 7:27-18.7. These netting analyses must be kept on site or submitted to the Department consistent with the Department's guidance included in the memo listed under "N.J.A.C. 7:27-18 Netting Analysis" and the "General Procedures for General Operating Permits" on the Department's webpage http://www.state.nj.us/dep/aqpp/permitguide.html and http://www.state.nj.us/dep/aqpp/gop.html, respectively. The Department intends to review these analyses at least once in 5 years unless no permit modifications proposing emissions increases were made and no GOPs were obtained during the past 5-year permit term. All netting analyses corresponding to a modification to increase emissions or a GOP must be submitted to the Department. Any netting analyses submitted with a modification application during the 5-year permit term do not need to be submitted again with the permit renewal application.

Check the following boxes as applicable:

☑ **NO**, this facility **has not made** permit changes resulting in emissions increases, including GOPs, since the last permit renewal.

☐ **YES**, this facility **has made** permit changes resulting in emissions increases, including GOPs, since the last permit renewal, and

- ☐ One or more netting analyses, prepared consistent with N.J.A.C. 7:27-18.7 during this permit term, were provided with a modification application during the 5-year permit term.
- ☐ One or more netting analyses, prepared consistent with N.J.A.C. 7:27-18.7 during this permit term, are provided with this permit renewal application.
- ☐ One or more netting analyses, prepared consistent with N.J.A.C. 7:27-18.7 during this permit term, will be submitted during the technical review of this permit renewal application.

Attachment to the RADIUS Air Operating Permit Renewal Application

Section 2

Certification

No additional certification is required when submitting the operating permit renewal application through NJDEP Online: http://www.nj.gov/dep/online/.

Complete the information below when submitting the operating permit renewal application on an electronic storage device, through the mail. Click on the icon on the signature line to add an image of a signature saved on your computer. If you do not have one, print the form out and manually sign on the line.

Facility PI#: 51614

Facility Name: Camden County Energy Recovery Associates LP

Responsible Official:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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.

Name: Richard Harrington **Signature:** Richard R Harrington **Date:** 6/4/18

Individuals with Direct Knowledge:

I certify under penalty of law that I believe the information provided in this document 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.

Name: Patrick J. Friscia **Signature:** Patrick J. Friscia **Date:** June 4, 2018

Section Being Certified:

Name: **Signature:** **Date:**

Section Being Certified:

Name: **Signature:** **Date:**

Section Being Certified:

Name: **Signature:** **Date:**

Section Being Certified:

The forms contained in this attachment must not be altered. Use of any non-standard forms will require resubmittal of the renewal application.

Section 3
Summary of 7-Day Notice Changes

Instructions
Complete this form if any 7-day notice changes were submitted to the NJDEP since the approval of the initial operating permit or most recent renewal thereof. With this information, the NJDEP will include the provisions of any eligible 7-day notice changes into the renewed permit.

No.	Date of 7-Day Notice	Brief Description of Change
		No 7-day Notice Changes have been submitted since the most recent OP renewal dated August11, 2015

Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	2	For E1,2,3,9,10, all requests, reports, applications, submittals, and other communications to the Administrators pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to Region II, Air and Waste Management	None	None	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]	✓	
GR1	3	For E1,2,3,9,10, copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the Southern Regional Enforcement Office of NJDEP at One Port Center, 2 Riverside Drive Suite	None	None	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4 (b)]	✓	

Make additional copies of this form if needed.

Section 4
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						Yes	No
GR1	4	For E1,2,3,9,10, the owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source electronic notification	None	None	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]	✓	
GR1	5	For E1,2,3,9,10, the owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution	None	Recordkeeping by manual logging of parameter upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	6	For E1,2,3 each owner or operator required to install a continuous monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary	None	None	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall be postmarked by the 30th day	✓	
GR1	7	For E1,2,3,9,10, the owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. [40 CFR 60.7(f)]	None	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous	None	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	8	~~or E1,2,3,9,10, the owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. [40 CFR 60.8 (b)]~~	~~None~~	~~None~~	None	✓	
GR1	9	For E1,2,3,9,10, performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods	None	None	None	✓	

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Section 4
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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	10	For E1,2,3,9,10, the owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60 8(a). [40 CFR 60.8(a)]	None	None	None	✓	
GR1	11	For E1,2,3,9,10, unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. [40 CFR 60.8(f)]	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	12	For E1,2,3 compliance with NSPS standards specified in this permit, other than opacity, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. [40 CFR 60.11(a)]	None	None	None	✓	
GR1	13	For E1,2,3,9,10, for equipment required to conduct visual opacity tests (E1, E2, E3, E9, and E10): The owner or operator shall demonstrate compliance with NSPS opacity standards specified in 40 CFR Part 60. [40	Monitored by visual determination annually, based on 6 minute blocks on an annual basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test and must	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall maintain records of opacity of emissions based on Method 9 observations.	Submit a report: Annually. The owner or operator shall submit results of Method 9 observation data to the Administrator. For E 9, 10 submit results of Method 22. [40 CFR 60.11(e)(2)]	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	14	For E1,2,3 for equipment subject to the NSPS COM requirement, the owner or operator shall demonstrate compliance with NSPS opacity standards specified in 40 CFR Part 60. [40 CFR 60.11(b)]	Monitored by continuous opacity monitor continuously, based on 6 minute blocks. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours for the performance test. [40 CFR	Recordkeeping by strip chart or data acquisition (DAS) system continuously or a file of all data maintained in a permanent form suitable for inspection. [N.J.A.C. 7:27-22.16(a)]	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit Continuous Opacity Monitoring System (COMS) data produced during any performance test in lieu of	✓	
GR1	15	For E1,2,3,9,10, the NSPS opacity standard shall apply at all times except during periods of startup, shutdown, malfunctions and as otherwise specified in this permit. [40 CFR 60.11(c)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	16	For E1,2,3,9,10, at all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in	None	None	None	✓	
GR1	17	For E1,2,3,9,10, no owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	18	For E1,2,3 the owner or operator shall perform zero and span adjustments daily for continuous emission monitors and continuous opacity monitors following procedures outlined in 40 CFR Part 60.13(d)1 & 2. [40 CFR 60.13	None	Other: Maintain records in accordance with 40 CFR 60.7(f). [40 CFR 60.13(d)].	None	✓	
GR1	19	For E1,2,3 except for system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous opacity monitoring systems shall be in continuous operation. They shall complete a minimum	None	None	None	✓	

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Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	20	For E1,2,3 except for system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous monitoring systems measuring emissions except opacity shall be in continuous operation. They shall complete a minimum of one	None	None	None	✓	
GR1	21	For E1,2,3 all continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are	None	None	None	✓	

Make additional copies of this form if needed.

Section 4
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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	22	The owner or operator of all continuous monitoring systems for measuring opacity shall reduce all data to 6-minute averages which shall be calculated from 36 or more data points equally spaced over each 6-minute period. Six-minute	None	None	None	✓	
GR1	23	The owner or operator of all continuous monitoring systems (other than opacity) shall reduce all data to 1-hour averages for time periods. One-hour period is defined in 40 CFR 60.2 as any 60-minute period	None	Other: See Applicable Requirement. [40 CFR 60.13(h)].	None	✓	

Make additional copies of this form if needed.

Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	24	All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in the applicable subparts. After conversion into units of the standard, the data may be rounded to the same number	None	None	None	✓	
GR1	25	For E1,2,3,9, 10, changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures	None	None	None	✓	

Make additional copies of this form if needed.

Section 4
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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
GR1	26	The facility shall comply, as applicable, with all current and future applicable MACT regulations. [N.J.A.C. 7:27-22.16(o)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1,OS Sum.	1	STACK TESTING SUMMARY The permittee shall conduct stack tests using an approved protocol to demonstrate..... allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16	Other: Monitoring as required by this OS Summary or under the applicable operating scenario(s).[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by stack test results upon occurrence of event. Recordkeeping as required by this OS Summary or under the applicable operating scenario (s). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule , i.e., as required by the OS Summary or Operating Scenario conditions elsewhere in this permit. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS SUM.	2	Conduct a comprehensive stack test on each municipal solid waste combustor using an approved protocol at emission point Pt1, Pt2, and PT3 at least 18 months prior to the expiration of the approved operating permit	Monitored by stack emission testing prior to permit expiration date. Stack tests shall be based on the average of three one hour tests for all contaminants except for hydrogen flouride, carbon monoxide, and	Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d).	✓	

Make additional copies of this form if needed.

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	3	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the arsenic, beryllium, chromium, and nickel permit limits. Testing must be conducted at worst-case permitted	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by stack test results upon occurrence of event. All records shall be maintained on site in either paper copy or computer-readable format. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must.....As indicated in 40 CFR 59b(a)(1), a list of the	✓	
U1, OS Sum	4	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor using EPA Method 5 to demonstrate compliance with the particulate emission limits of 3.59 lb/hr and with 0.013	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by stack test results upon occurrence of event. All records shall be maintained on site in either paper copy or computer-readable format. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols.pursuant to N.J.A.C. 7:27-22.19(d). The test results	✓	

Make additional copies of this form if needed.

Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	5	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the particulate emission limit of 25 mg / DSCM corrected to 7% O2 allowable, from the filterable catch of the	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [40 CFR 62.14109(b)]	Recordkeeping by stack test results upon occurrence of event All records shall be maintained on site in either paper copy or computer-readable format. This is as specified at 40 CFR 60.59b(d)(9)(i) and 40 CFR 60.59b(k), [N.J.A.C.	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted.....pursuant to N.J.A.C. 7:27-22.19(d). The	✓	
U1, OS Sum	6	For Pt1, Pt2, and Pt3, conduct a comprehensive stack test using an approved protocol within one year prior to the expiration of the renewed operating permit on each municipal solid waste combustor to	Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. Testing for particulates shall be performed as follows.:Three test runs using	Recordkeeping by stack test results upon occurrence of event. All records shall be maintained on site in either paper copy or computer-readable format. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Stack testing shall be performed using approved protocols..... report must be submitted to the Regional Enforcement Office within 60	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	7	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor using EPA Method 5 to demonstrate compliance with the particulate emission limit of 0.03 grains/dscf, corrected to 7% oxygen from the	Monitored by stack emission testing annually, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event All records shall be maintained on site in either paper copy or computer-readable format. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols.....stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results	✓	
U1, OS Sum	8	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the PM-10 emission limit of 0.013 grains/dscf, corrected to 7% oxygen, from	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event All records shall be maintained on site in either paper copy or computer readible format. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols.....performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	9	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the total PM-10 emission limit of 7.02 lb/hr. Total PM-10 shall include both filterable and condensible catches from	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event. Recordkeeping shall be done through test reports pursuant to N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols.....performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results	✓	
U1, OS Sum	10	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with HCl emission limits. Testing must be conducted at worst-case permitted operating	Monitored by stack emission testing annually, based on each of three Department validated stack test runs to demonstrate compliance with emission limits pursuant to N.J.A.C. 7:27-22.16(e),and the average of	Recordkeeping by stack test results upon occurrence of event All records shall be maintained onsite in either paper copy or computer-readable format. This is as indicated in 40 CFR 60.59b(d)(9)(i) and 40	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols.....pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	11	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the mercury limits and the requirements under N.J.A.C. 7:27-22.16(e), N.J.A.C. 7:27-27.4 and 40CFR 60.58b	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs using EPA Reference Method 29. The tests for mercury shall consist of three source emission tests to measure	Recordkeeping by stack test results upon occurrence of event. All records shall be maintained onsite in either paper copy or computer-readable format. This is as indicated in 40 CFR 60.59b(d)(9)(i) and 40 CFR 60.59b(k) (N.J.A.C.	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted.....performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results	✓	
U1, OS Sum	12	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the lead and cadmium emission limits. Stack testing is as required at 40 CFR 60.58b.	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Stack testing for lead and cadmium (using EPA Method 29) shall be as required at 40 CFR	Recordkeeping by stack test results upon occurrence of event All records shall be maintained onsite in either paper copy or computer-readable format. This is as indicated in 40 CFR 60.59b(d)(9)(i) and 40	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted.....The test	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	13	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with total polychlorinated dibenzodioxin and dibenzofuran emission limits. Total polychlorinated	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs Sample time shall be at least 4 hours per run, using EPA test Method 23 as specified at 40 CFR 60.58b(g)(3). This is as	Recordkeeping by stack test results upon occurrence of event All records shall be maintained onsite in either paper copy or computer-readable format. This is as specified at 40 CFR 60.59b(d)(9)(i) and 40 CFR 60.59b(k). [40 CFR	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic	✓	
U1, OS Sum	14	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the ammonia emission limits from BOP100003. Testing must be conducted at	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted.....performing	✓	

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Section 4
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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	15	Particulate Emissions <= 18.23 lb/hr allowable for each combustor as determined from the Table at 7:27-4.2(a). The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27-4.2 (a)]	None	None	None	✓	
U1, OS Sum	16	SO2 <= 2,000 ppmvd Maximum allowable per combustor emission limit from N.J.A.C. 7:27-7.2(b)(1). The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27- 7.2(b)1]	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	17	SO2 <= 1,500 lb/hr Maximum allowable per combustor emission limit as specified at N.J.A.C. 7:27-7.2(r). The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27-7.2 (b)2]	None	None	None	✓	
U1, OS Sum	18	SO2 <= 3,000 lb/hr maximum alllowable per combustor at any instant, based on the calculation procedure at N.J.A.C. 7:27-7.2(r). The emission limit applies at all time including startup and shutdown.	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	19	SO3 and H2SO4, as converted and expressed as H2SO4 <= 10 mg/ft^3 maximum allowable per combustor at standard conditions. The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27-7.2]	None	None	None	✓	
U1, OS Sum	20	SO3 and H2SO4, as converted and expressed as H2SO4 <= 350 lb/hr maximum allowable per combustor in any 60-minute period, based on the calculation procedure at N.J.A.C. 7:27-7.2(r). The emission limit	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	21	SO3 and H2SO4, as converted and expressed as H2SO4 <= 700 lb/hr maximum allowable per combustor at any instant, based on the calculation procedure at N.J.A.C. 7:27-7.2(n). The emission limit applies at all time including	None	None	None	✓	
U1, OS Sum	22	Sulfur Content in Fuel <= 500 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1,	Other: Monitored by review of supplier certification showing sulfur content on each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	Other: Recorkeeping by supplier certification showing fuel sulfur content with each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	None	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	23	Sulfur Content in Fuel <= 15 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1, 2016) for Zone 3 (Camden	Other: Monitored by review of supplier certification showing sulfur content on each change of supplier or upon change of formulation [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by supplier certification showing fuel sulfur content with each change of supplier or upon change of formulation [N.J.A.C. 7:27-22.16(o)].	None	✓	
U1, OS Sum	24	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold,	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	25	SO2 <= 1.2 lb/MMBTU gross heat input determined as a 30-day rolling average. No person shall expand or reconstruct an existing solid fuel-fired steam generating unit or construct a new solid fuel-fired steam generating unit having a rated	SO2: Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1	✓	
U1, OS Sum	26	Particulate Emissions <= 0.1 gr/dscf @ 12% CO2 maximum allowable (including ash, excluding the contribution of auxiliary fuel) for each combustor. The emission limit applies at all time including startup and	Particulate Emissions: Monitored by stack emission testing prior to permit renewal, based on the average of three Department validated stack test runs. See stack testing requirement, OS Summary. [N.J.A.C.	Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. See stack testing requirement, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirement, OS Summary. [N.J.A.C. 7:27-22.16(o)]	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	27	Opacity <= 1 Ringlemann Smoke Chart at all times including startup and shutdown, except for emissions of greater than Number 2 on the Ringleman chart for a period of not longer than three consecutive minutes. [N.J.A.C. 7:27-11.3(b)2.iii]	None	Other: All smoke test data shall be recorded in a permanent log at such time intervals as specified by the Department. Data shall be maintained for a period of not less than one year and shall be available for review by the Department [N.J.A.C.	None	✓	
U1, OS Sum	28	The provisions of 7:27-11.3(b)(2) shall not apply to: i. Smoke emitted during the building of a new fire, the shade or appearance of which is not greater than Number 2 of the Ringelmann smoke chart	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	29	Particulate Emissions: No person shall cause, suffer, allow or permit the emission of particles of unburned waste or ash from any common incinerator or from any special incinerator which are individually large enough to be visible while	None	None	None	✓	
U1, OS Sum	30	Odor: No person shall construct, install, use or cause to be used any common incinerator or any special incinerator which will result in odors being detectable by sense of smell in any area of human use or occupancy.	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	31	Any person responsible for the use of an existing incinerator shall upon request of the Department provide such sampling facilities and testing facilities exclusive of instruments and sensing devices as may be necessary for the Department	None	None	None	✓	
U1, OS Sum	32	No person shall use or cause to be used any incinerator unless all components connected, or attached to, or serving the incinerator, including control apparatus are functioning properly and are in use, in	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	33	VOC (Total) <= 3.5 lb/hr. Maximum uncontrolled emission rate from each municipal solid waste combustor, based on the Table 16A at N.J.A.C. 16.16. This limit applies at all times, including startup and shutdown. [N.J.A.C.	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three 1-hour tests Refer to VOC stack testing requirement in U1 OS0, except that compliance with this requirement is based on any	VOC (Total): Recordkeeping by stack test results prior to permit expiration date Refer to VOC stack testing requirement in U1 OS0. Stack testing reports shall be maintained on site for a period of not less than five years. [N.J.A.C.	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. The permittee shall submit a report on the analysis conducted in accordance with N.J.A.C. 7:27-16.16(g)(1)(ii). In addition to the	✓	
U1, OS Sum	34	NOx (Total) <= 150 ppmvd @ 7% O2 based on a calendar day average on and after May 1, 2011, if compliance is achieved by installing a new NOx air pollution control system on an existing MSW incinerator or	NOx (Total): Monitored by continuous emission monitoring system continuously, based on one calendar day Valid Data Capture Requirement:: in order for a compliance averaging period to be valid, it	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-19.12]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1,	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	35	owner or operator of an MSW incinerator of any size shall operate the MSW incinerator in accordance with provisions specified in either (a) 1 or 2 below. Compliance with this standard shall be measured pursuant to (b) below.	Other: See stack testing requirements in U1 OSO.[N.J.A.C. 7:27-27.4(c)].	Other: See stack testing requirements in U1 OSO.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): As per the approved schedule See stack test requirements at OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS Sum	36	The owner or operator of a MSW incinerator that is demonstrating compliance with the mercury emission standard of N.J.A.C. 7:27-27.4(a)1 shall conduct stack emission testing every quarter to measure mercury in	Other: See stack testing requirements for mercury of OSO.[N.J.A.C. 7:27-27.4(c)].	Other: See stack testing requirements at OSO.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): As per the approved schedule See stack test requirements at OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	37	Notwithstanding the provisions of (b) above, any owner or operator who achieves and maintains compliance with (a) above, for all applicable incinerators located at a facility, during eight consecutive quarters, may reduce the frequency of stack	Other: See stack testing requirement at OS Summary.[N.J.A.C. 7:27-27.4 (d)].	Other: See stack testing requirement at OS Summary.[N.J.A.C. 7:27-27.4 (d)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirement at OS Summary. [N.J.A.C. 7:27-27.4 (a)]	✓	
U1, OS Sum	38	Mercury Emissions: The owner or operator of any MSW incinerator that has a reagent based mercury emision control system shall operate each MSW incinerator at, or above, the optimized reagent feed rate established	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	39	Any owner or operator of a MSW incinerator that submits to the Department a report of compliance testing, including all test runs for a MSW incinerator shall have such report reviewed prior to submission and certified by a registered	None	None	None	✓	
U1, OS Sum	40	Any owner or operator of a MSW incinerator shall maintain at the facility a complete record, including all compliance test reports, of all compliance testing, including all test runs, conducted at the	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	41	Any owner or operator of a MSW incinerator who submits to the Department a report of compliance testing, including all test runs, shall certify that report. [N.J.A.C. 7:27-27.9(f)]	None	None	None	✓	
U1, OS Sum	42	The owner or operator shall make any record made pursuant to N.J.A.C. 7:27-27.9(e) available to the Department, or its authorized representatives, for inspection for a period of five years after the date the	None	None	None	✓	

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Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1,OS Sum	43	For each unit, continuous monitors and recorders shall be installed, calibrated, tested and operated to measure and record the opacity of the stack gas and emission concentrations of carbon monoxide, oxygen, nitrogen oxides and sulfur	None	None	None	✓	
U1, OS Sum	44	Any changes to the CEMS required under this operating permit must be approved by the Department. [N.J.A.C. 7:27-22.16(a)]	None	None	Other (provide description): As per the approved schedule Submit for Department review and approval , a proposal for any changes to the CEMS required by this operating permit prior to initiating such	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	45	A minimum of ninety (90) percent data availability per calendar quarter, based on source operating hours, is required for the continuous emission monitoring systems from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None	None	None	✓	
U1, OS Sum	46	A minimum of ninety-five (95) percent data availability per calendar quarter, based on source operating hours, is required for the continuous opacity monitoring systems. [N.J.A.C. 7:27-22.16(e)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS sum	47	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp. [N.J.A.C.	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA data and quarterly reports[N.J.A.C. 7:27-22.16(o)].	None	✓	
U1, OS Sum	48	Visible emissions shall not exceed an average of 10% opacity in any 6-minute block period from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by continuous opacity monitor continuously, based on 6 minute blocks. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C.	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	49	Annual emission limit from preconstruction permit for each combustor TSP <= 14.8 tons/yr. [N.J.A.C. 7:27-22.16 (e)]	None	None	None	✓	
U1, OS Sum	50	PM-10 (Total) <= 86.9 tons/yr. Total annual emission limit for all 3 combustors, from modification BOP060006. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	51	SO2 <= 71 tons/yr. Annual emission limit from operating permit application for each combustor. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	
U1, OS Sum	52	NOx (Total) <= 153 tons/yr. Annual emission limit from preconstruction permit for each combustor from BOP100003. [N.J.A.C. 7:27-22.16(e)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	53	NOx (Total) <= 459 tons/yr. Annual emission limit from the NOx Control Plan for all three units combined. [N.J.A.C. 7:27-19.13]	None	None	None	✓	
U1, OS Sum	54	Carbon monoxide <= 62.1 tons/yr. Annual emission limit from operating permit application for each combustor. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	55	VOC (Total) <= 7.07 tons/yr. Annual emission limit from operating permit application for each combustor. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	
U1, OS Sum	56	Ammonia <= 20 tons/yr. Annual emission limit for each combustor from BOP100003. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	57	Lead Emissions <= 0.33 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(e)]	None	None	None	✓	
U1, OS Sum	58	HCl Emissions <= 40.5 tons/yr. Annual emission limit from operating permit application for each combustor. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	59	Annual emission limit from preconstruction permit for each combustor, Sulfuric Acid emissions<=10.7tpy. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	
U1, OS Sum	60	Mercury Emissions <= 0.0203 tons/yr. Annual emission limit from the operating permit application for each combustor based on the limit of 28 ug/DSCM for each unit. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	61	Hydrogen fluoride <= 1.57 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(e)]	None	None	None	✓	
U1, OS Sum	62	Annual emission limit from preconstruction permit for each combustor, Polycyclic Aromatic Hydrocarbons<=.06 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	63	TCDD Emissions (2,3,7,8-) <= 0.0000037 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(e)]	None	None	None	✓	
U1, OS Sum	64	Arsenic Emissions <= 0.0022 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(e)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	65	Cadmium Emissions <= 0.0144 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	
U1, OS Sum	66	Any individual hazardous air pollutant emissions, not specifically listed in this permit, are below the reporting thresholds listed in N.J.A.C.7:27-22. [N.J.A.C. 7:27-22.16(a)]	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	67	Upon start-up of a unit, no solid waste may be introduced in to the municipal solid waste combustor unless the temperature 0.3 seconds downstream of secondary air injection is 1500 degree fahrenheit or higher. Compliance with this	Monitored by temperature instrument upon occurrence of event based on the average of the two closest readings from the three thermocouples. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None	✓	
U1, OS Sum	68	Within one hour after waste has been introduced into a municipal solid waste combustor, the temperature one second downstream of secondary air injection must be no less than 1500 degree fahrenheit.	Monitored by temperature instrument upon occurrence of event based on the average from the two closest readings from the three thermocouples. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C.	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	69	The temperature one second downstream of secondary air injection at which the municipal solid waste combustor must operate at least 90% of the time when waste is being burned, must be no less than 920 degree fahrenheit average and	Monitored by temperature instrument continuously based on the average from the two closest readings from the three thermocouples. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None	✓	
U1, OS Sum	70	The auxiliary burners shall operate automatically if the temperature one second downstream of secondary air injection drops below 1550 degree fahrenheit during the combustion of waste. Compliance with this	Monitored by temperature instrument continuously based on the average from the two closest readings from the three thermocouples. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C.	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	71	~~Oxygen >= 3 % by volume average measured on a dry basis in the flue gas at the municipal solid waste combustor exit of each unit for any 5-minute block average from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]~~	~~Oxygen: Monitored by continuous emission monitor continuously, based on 5-minute blocks. [N.J.A.C. 7:27-22.16 (e)]~~	~~Oxygen: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(e)]~~	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1,	✓	
U1, OS Sum	72	A low oxygen incident alone shall not be a basis for violating the immediately preceeding condition.. However, the following shall be considered violations and subject to enforcement action: i. Failure to cease waste feed	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	73	The permittee shall cease the waste charging to the affected municipal solid waste combustor within five minutes of the low oxygen incident when the oxygen level in the flue gas at the boiler exit drops below 3.0% by volume. [N.J.A.C.	Other: oxygen monitoring continuously and monitoring of feed ram upon occurance of low oxygen event.[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(e)]	None	✓	
U1, OS Sum	74	Temperature > 800 degrees F The temperature at the inlet of the municipal solid waste combustor convection section before solid waste may be introduced into the furnace. [N.J.A.C. 7:27-22.16(e)]	Temperature: Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(e)]	Temperature: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	75	The temperature of the steam from each municipal solid waste combustor shall be continuously monitored and recorded.. [N.J.A.C. 7:27-22.16(e)]	Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(e)]	None	✓	
U1, OS Sum	76	The pressures of steam from each municipal solid waste combustor shall be continuously monitored and recorded. [N.J.A.C. 7:27-22.16(e)]	Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C.	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	77	To obtain start-up/shutdown allowances, the facility must maintain the equipment, operate the equipment properly, take steps to minimize emissions during start-up/shutdown and malfunction periods, identify and take steps to prevent malfunctions	None	None	None	✓	
U1, OS Sum	78	Start-up Period: commences when the affected incinerator begins the combustion of municipal waste, including continuous, semicontinuous, or batch feeding of municipal solid waste to the furnace. The	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	79	The shut down period commences when the feeding of municipal solid waste to the hopper is terminated as a result of a scheduled shutdown or malfunction. The shutdown period ends when municipal solid waste is no longer combustible	None	None	None	✓	
U1, OS Sum	80	WARM-UP ALLOWANCES - The CO emission limits specified in this permit (see U1 OS1, OS2 and OS3) shall not apply during periods, including warm-up periods, when no waste is burned and fossil fuel is	None	None	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	81	Failure to maintain at least 1500 degrees F one second after secondary air injection except as provided for under permit conditions shall require cessation of waste charging to the affected combustor. Also if all three permanent	Other: monitor feed ram upon occurance of event[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event in a log book. [N.J.A.C. 7:27-22.16(e)]	None	✓	
U1, OS Sum	82	Maximum annual hours of operation for each unit. Hours of Operation <= 8,256 hr/yr. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data In a computer data system daily in a log book or readily accessible computer memory. The log shall include specific	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	83	Maximum Gross Heat Input <= 154.6 MMBTU/hr (HHV). Gross Heat Input rate of each MSW combustor from preconstruction permit. [N.J.A.C. 7:27-22.16(o)]	None	Maximum Gross Heat Input: Recordkeeping by umentation of burner rated heat input.[N.J.A.C. 7:27-22.16(o)].	None	✓	
U1, OS Sum	84	Primary fuel is limited to solid waste, specifically the following solid waste materials, as defined by waste ID numbers and defined in N.J.A.C. 7:26-2.13(g): I.D. Description 10. Municipal Waste	Other: monitor waste feed per delivery.[N.J.A.C. 7:27-22.16 (o)].	Other: record waste ID received per delivery.[N.J.A.C. 7:27-22.16 (o)].	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1. OS Sum	85	The following solid and liquid waste materials, as identified by waste ID numbers and defined in N.J.A.C. 7:26-2.13 (g) and (h), and the following regulated medical waste classes as defined in N.J.A.C. 7:26-3A.6(a) are specifically	Other: Monitor waste feed per delivery by review of NJDEPE Waste Origin & Disposal Form at the scale house, visual inspection of unloaded contents at tipping floor, and visual inspection of tipping process for undetected	Other: record vehicle ID, waste type and ID, and origin into computer data base. Keep records of all Waste Rejection Diversion Forms generated for prohibited wastes on site.[N.J.A.C. 7:27-22.16(o)].	None	✓	
U1. OS Sum	86	The facility shall not accept any berylliumcontaining waste as defined in 40CFR 61.31(g) [N.J.A.C. 7:27-22.16 (e)]	Other: monitor waste per delivery[N.J.A.C. 7:27-22.16(o)].	Other: waste manifests per delivery.[N.J.A.C. 7:27-22.16 (o)].	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	87	Secondary fuel is limited to Natural Gas or No.2 distillate fuel oil, from preconstruction permit. [N.J.A.C. 7:27-22.16 (e)]			None	✓	
U1, OS Sum	88	Natural Gas Usage <= 54.4 MMft^3/yr is maximum annual consumption of each combustor, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by gas use totalizing meter continuously, based on a consecutive 365 day period (rolling 1 day basis). [N.J.A.C. 7:27-22.16 (o)]	Natural Gas Usage: Recordkeeping by strip chart or data acquisition (DAS) system continuously cumulative total based on 12 consecutive months. [N.J.A.C. 7:27-22.16(o)]	None	✓	

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						Yes	No
U1, OS Sum	89	The Boiler Acid Neutralization Scrubbers (CD1,3,5) shall be operated at all times when the municipal solid waste incinerators are being operated and in accordance with both the manufacturers specifications and the in accordance with all	None	None	None	✓	
U1, OS Sum	90	Scrubbing Medium Flow Rate >= 5 and Scrubbing Medium Flow Rate <= 20 gal/min for each scrubber. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection	None	✓	

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						Yes	No
U1, OS Sum	91	The specific gravity of the of the lime slurry shall be in the range of 1.065 to 1.135. [N.J.A.C. 7:27-22.16(a)]	Monitored by grab sampling once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	None	✓	
U1, OS Sum	92	The electrostatic precipitators on each municipal solid waste combustor shall be in operation at all times when the combustors are operating. They shall be operating in accordance with all manufacturer's	Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(a)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C.	None	✓	

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						Yes	No
U1, OS Sum	93	For each ESP, the secondary voltage and secondary current on each field shall be monitored to insure operation in accordance with the manufacturers specifications. [N.J.A.C. 7:27-22.16(o)]	Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None	✓	
U1, OS Sum	94	The owner or operator shall, in accordance with N.J.A.C. 7:27-27.4 (i),(j),and (k) conduct optimization tests on any single unit to determine the optimized activated carbon feed rate for mercury emission control. The	None	Other: Keep results of optimization tests on site.[N.J.A.C. 7:27-22.16(o)].	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	95	The rate of carbon injection through CD 11,12,13 shall be greater than or equal to 222.4 lb over an 8-hour block average or the rate established by the Department after the most recent stack tests. [N.J.A.C. 7:27-22.16(a)]	Other: monitor carbon feed auger speed shall be continuously monitored.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by strip chart or data acquisition (DAS) system continuously of carbon auger speed. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C.	None	✓	
U1, OS Sum	96	The carbon feed auger speed for each consecutive eight hour period (12 to 8, 8 to 12, etc) must be maintained at or above the speed that has been determined, by actual measurement during calibration, to deliver	Other: by weekly calibration and calculation.[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation of calibration calculation and any adjustment of auger speed that was made in a log book.	None	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	97	The operation below the minimum allowable carbon feed rate as indicated by the auger speed is a permit violation unless within three hours the condition that causes the excursion is corrected, the proper rate is restored or the waste	Other: monitor auger speed continuously[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event cumulative excursion time below minimum carbon feed rate in a logbook. [N.J.A.C. 7:27-22.16(o)]	None	✓	
U1, OS Sum	98	The carbon feed auger speed, versus actual carbon delivery rate, shall be calibrated weekly by actual measurements (collecting and weighing the carbon delivered by the feeder) for each unit. a. The maximum time	Monitored by gravimetric monitoring each week during operation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation of each calibration calculation and any auger speed adjustment in a log book. [N.J.A.C.	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	99	The total annual actual quantity of carbon used at the facility must equal or exceed the minimum allowable pounds per hour multiplied by the total hours of waste feed to all three units during the quarter. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations annually based on a quarterly basis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation to include the total hours of waste feed to each unit, the total combined hours, total minimum combined quantity	None	✓	
U1, OS Sum	100	Written records shall be kept for each unit to accurately document the date, time, and quantity of activated carbon bulk deliveries and the remaining storage silo inventory difference. [N.J.A.C. 7:27-22.16(e)]	None	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Written records shall be kept to accurately maintain the date and time activated carbon deliveries	None	✓	

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Section 4
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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	101	The SNCR system on each municipal solid waste combustor shall be in operation when the combustors are operating at or above 40 percent steam load and when necessary to achieve compliance. They shall be operating in accordance with	Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system continuously. [N.J.A.C. 7:27-22.16(o)]	None	✓	
U1, OS Sum	102	For each SNCR, the permittee shall conduct optimization tests (once initially) to determine both the performance of the SNCR system and the optimized urea injection rate vs NOx removal efficiency.	None	Other: Maintain a copy of the optimization study on site for NJDEP/EPA review.[N.J.A.C. 7:27-22.16 (o)].	Submit a performance test protocol: As per the approved schedule. Submit the performance test protocol at least 45 days prior to the desired test date. Conduct optimization test prior to March 31, 2011.	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	103	Flowrate >= 0.1 and Flowrate <= 15 gal/hr expected flow rate of NOxOUT Urea reagent pending results of optimization testing from BOP100003. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by material feed/flow monitoring continuously. The flow of SNCR reagent entering each municipal solid waste combustor shall be continuously monitored and recorded. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously The flow of SNCR reagent entering each municipal solid waste combustor shall be continuously monitored and recorded. [N.J.A.C. 7:27-22.16(o)]	None	✓	
U1, OS Sum	104	Ammonia Slip < 20 ppm @ 7% O2 for the selective non-catalytic reduction system. [N.J.A.C. 7:27-22.16(a)]	Ammonia Slip: Monitored by stack emission testing annually, based on the average of three 1-hour tests. See stack testing requirements in U1, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Ammonia Slip: Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in U1, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1, OS0. [N.J.A.C. 7:27-22.16 (e)]	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	105	The owner/operator of a municipal waste combustor must comply with the MWC operating practice requirements codified under 40 CFR 60.53b (b) and (c) of NSPS Subpart Eb. [40 CFR 62.14104]	None	Other: The facility shall maintain the following records for a period of five years: Records showing the names of the municipal waste combustor chief facility operator, shift supervisors and control room operators who have been fully certified or	None	✓	
U1, Os Sum	106	Each chief facility operator and shift supervisor must obtain and maintain a current provisional operator certification from either the American Society of Mechanical Engineers (QRO-1-1994) or a	None	Other: The facility shall maintain the following records for a period of five years: Records showing the names of the municipal waste combustor chief facility operator, shift supervisors and control room operators who	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	107	Each chief facility operator and shift supervisor must complete full certification or must have scheduled a full certification exam with either the American Society of Mechanical Engineers (QRO-1-1994) or a State certification program	None	None	None	✓	
U1, OS Sum	108	The facility must not be operated unless one of the following persons is on duty: - a fully certified chief facility operator; - a provisionally certified chief facility operator who is scheduled to take the full	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	109	When the certified chief facility operator and certified shift supervisor are both off site for 12 hours or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the	None	None	None	✓	
U1, OS Sum	110	When the certified chief facility operator and certified shift supervisor are off site for more than 12 hours, but for two weeks or less, and no other certified operator is on site, the provisionally certified control room	None	None	None	✓	

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Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	111	When the certified chief facility operator and certified shift supervisor are off site for more than two weeks, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief	None	None	None	✓	
U1, OS Sum	112	A provisionally certified operator who is newly promoted or recently transferred to a shift supervisor position or a chief facility operator position at the municipal waste combustion unit may perform the duties of	None	None	None	✓	

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Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	113	The facility shall develop and update on a yearly basis a site-specific operating manual that shall, at a minimum, address the following elements of its municipal waste combustor unit operation: - A summary of the applicable standards	None	Other: The operating manual must be available for inspection by USEPA or the Department upon request. Any information provided to the Department is available for inspection by the public upon request under the Open Public Records Act	Submit an Annual Compliance Certification: Annually by the Responsible Official to the Department that the annual update has been completed to his satisfaction. [N.J.A.C. 7:27-22.16(a)]	✓	
U1, OS Sum	114	The facility must establish a training program to review the operating manual according to the schedule specified below with each person who has responsibilities affecting the operation of the facility,	None	Other: The facility shall maintain records showing the names of persons who have completed a review of the operating manual including the date of initial review and subsequent annual reviews. This is based on	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	115	The facility shall submit a semi-annual report which shall include the following: - Information recorded which indicates the average sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load level	None	Other: All semi-annual reports must be maintained on site as a paper copy for a minimum of 5 years. This is as stated at 40 CFR 60.59b(j). [40 CFR 60.39b(d)] &[40 CFR 62.14109(a)].	Submit a report: As per the approved schedule that follows. The report for the first half of the calendar year must be submitted by August 1 of the same year. The report for the second half of the calendar year must be	✓	
U1, OS Sum	116	ANNUAL REPORT: The annual report shall include the following: - A list of the particulate matter, opacity, cadmium, lead, mercury, dioxins/furans, hydrogen chloride and fugitive ash emission	None	Other: All annual reports must be maintained on site as a paper copy for a minimum of 5 years. This is as stated at 40 CFR 60.59b(j). [40 CFR 60.39b(d)] &[40 CFR 62.14109(a)].	Submit a report: As per the approved schedule that follows. The report for the first half of the calendar year must be submitted by August 1 of the same year. The report for the second half of the	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	117	ANNUAL REPORT: The facility shall also provide a summary report with the same data specified in the semi-annual reports for the preceding year in order to provide the Administrator with a summary of the performance of the facility	None	Other: All annual reports must be maintained on site as a paper copy for a minimum of 5 years. This is as stated at 40 CFR 60.59b(j). [40 CFR 60.39b(d)] &[40 CFR 62.14109	Submit a report: As per the approved schedule that follows. The report for the first half of the calendar year must be submitted by August 1 of the same year. The report for the second half of the calendar year must be	✓	
U1, OS Sum	118	REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years:Identification of the calendar dates when any of the average emission	None	Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] &[40 CFR	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	119	REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years:Identification of the calendar dates for which the minimum number of hours of the data specified below have not	None	Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] &[40 CFR 62.14109(a)]	None	✓	
U1, OS Sum	120	REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years:Identification of each occurrence that sulfur dioxide emissions data, nitrogen	None	Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] &[40 CFR	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	121	REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years:The results of daily drift test and quarterly accuracy determinations for sulfur dioxide, nitrogen oxides and carbon	None	Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] &[40 CFR 62.14109(a)].	None	✓	
U1, OS Sum	122	REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years:The test reports documenting the results of all annual performance tests shall be recorded	None	Other: Maintain records for a period of at least 5 years from the date of record. [40 CFR 60.39b(d)] &[40 CFR 62.14109(a)].	None	✓	

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Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	123	During operation, the carbon injection system operating parameter (s) that are the primary indicator(s) of the carbon mass feed rate (e.g., screw feeder setting) must equal or exceed the level established during performance tests for mercury	Monitored by other method (provide description) at the approved frequency Monitored by carbon feed rate, as required at 40 CFR 60.59b(m)(2). [40 CFR 60.39b(d)]&. [40 CFR 62.14109(b)]	Other: The facility shall record the average carbon mass feed rate (in kg/hr or lb/hr) estimated for each hour of operation. This is as required at 40 CFR 60.59b (d)(4)(iii). Also, as required at 40 CFR 60.59b(d)(15), the facility shall record the	None	✓	
U1, OS Sum	124	The facility shall maintain the following records for a period of at least five years: Identification of the calendar dates when the average carbon mass feed rates as measured by auger speed were less that the hourly	Other: Carbon usage is continuously measured by auger speed. [40 CFR 60.39b(d)] &[40 CFR 62.14109(a)].	Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] &[40 CFR	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS Sum	125	The standards under 40 CFR 62, Subpart FFF apply at all times except during periods of startup, shutdown, or malfunction. Duration of startup, shutdown, or malfunction periods are limited to 3 hours per occurrence. The startup	None	None	None	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	1	Particulate Emissions <= 0.013 gr/dscf @ 7% O2 in each stack flue for each incinerator except during periods of start up and shut-down, from the preconstruction permit. [N.J.A.C. 7:27-22.16 (e)]	Particulate Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	2	TSP <= 0.03 gr/dscf @ 7% O2 in each stack flue for each incinerator including test runs during which incinerator tube rapping is performed except during periods of start up and shut-down, from preconstruction permit.	TSP: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	TSP: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	3	Particulate matter, <=10um <= 0.013 gr/dscf @ 7% O2 , filterable, in each stack flue except during periods of start up and shut-down. [N.J.A.C. 7:27-22.16(a)]	Particulate matter, <=10um: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Particulate matter, <=10um: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	4	PM-10 (Total) <= 7.02 lb/hr ,including both filterable and condensible catches, from BOP060006. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	5	Particulate Emissions <= 3.59 lb/hr from each unit except during periods of start up and shut-down, from the preconstruction permit. [N.J.A.C. 7:27-22.16 (o)]	Particulate Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	6	SO2 <= 50 ppmvd @ 7% O2 average concentration in the stack gas of each unit , as determined by continuous monitoring The 50ppmdv@ 7%O2 concentration limit shall not apply to a unit if the average 3 hr	SO2: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average , starting and ending on the hour from preconstruction permit. Valid	SO2: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C.	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years	✓	

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Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	7	SO2 <= 34.4 lb/hr from each unit except during periods of start up and shut-down, from preconstruction permit. [N.J.A.C. 7:27-22.16(o)]	SO2: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	8	HCl Emissions <= 50 ppmvd @ 7% O2 in the stack gas of each unit for any one hour period.except for 1-hour periods during which the average concentration of HCL (ppmv) in the stack gas is less than or equal	HCl Emissions: Monitored by stack emission testing annually, based on each of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	HCl Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	9	Hydrogen fluoride <= 0.36 lb/hr from each unit except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Hydrogen fluoride: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Hydrogen fluoride: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	10	Carbon monoxide <= 60.2 lb/hr from each unit except during periods of start-up and shutdown from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Carbon monoxide: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C.	Carbon monoxide: Recordkeeping by stack test results prior to permit expiration date. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	11	Carbon monoxide <= 400 ppmvd @ 7% O2 average in the stack gas of each unit except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Carbon monoxide: Monitored by continuous emission monitor continuously, based on a 1 hour block average during operation. [N.J.A.C. 7:27-22.16(e)]	Carbon monoxide: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C.	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	12	NOx (Total) <= 48 lb/hr from each unit except during periods of start-up and shutdown, from BOP100003. [N.J.A.C.7:27-19.13] and. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C.	NOx (Total): Recordkeeping by stack test results prior to permit expiration date. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	✓	

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Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	13	NOx (Total) <= 300 ppmvd corrected to 7% O2 concentration in the flue gas average in the stack gas of each unit except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C.7:27-19.13] and [N.J.A.C.	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average , starting and ending on the hour., Valid Data Capture Requirement: in order for a	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C.	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1,	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	14	SO3 and H2SO4, as converted and expressed as H2SO4 <= 2.6 lb/hr from each unit shall except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	SO3 and H2SO4, as converted and expressed as H2SO4: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See	SO3 and H2SO4, as converted and expressed as H2SO4: Recordkeeping by stack test results prior to permit expiration date. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

Make additional copies of this form if needed.

Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	15	Ammonia <= 1.62 lb/hr from BOP 100003. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	See stack test requirements U1 OSO. Ammonia: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	16	Lead Emissions <= 0.08 lb/hr from each unit except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Lead Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Lead Emissions: Recordkeeping by stack test results prior to permit expiration date. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	17	Mercury Emissions <= 0.08 lb/hr from the preconstruction permit. The Mercury emissions from each MSW combustor, shall comply with either of the two following alternatives, except during periods of start-up and shutdown from	Mercury Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Mercury Emissions: Recordkeeping by stack test results upon occurrence of event See stack test requirements (see U1,OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	18	Arsenic Emissions <= 0.000525 lb/hr per combustor except during periods of start-up, shutdown, and malfunction. from the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Arsenic Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Arsenic Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	19	Cadmium Emissions <= 0.0035 lb/hr per combustor except during periods of start-up and shutdown from the preconstruction permit. [N.J.A.C. 7:27-22.16 (e)]	Cadmium Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Cadmium Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	20	Nickel Emissions <= 0.018 lb/hr per combustor except during periods of start-up and shutdown from the preconstruction permit. [N.J.A.C. 7:27-22.16 (e)]	Nickel Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	21	VOC (Total) <= 3.42 lb/hr as methane from each unit except during periods of start-up and shutdown self imposed limit from operating permit application.. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	22	VOC (Total) <= 34 ppmvd @ 7% O2 of non-methane hydrocarbons as methane, in the stack gas of each unit except during periods of start-up and shutdown from BOP130002. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C.	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	23	TCDD Emissions (2,3,7,8-) <= 9.3E-7 lb/hr for each incinerator except during periods of start-up and shutdown from preconstruction permit. [N.J.A.C. 7:27-22.16 (e)]	TCDD Emissions (2,3,7,8-): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	TCDD Emissions (2,3,7,8-): Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	24	Polycyclic Aromatic Hydrocarbons <=.0145 lb/hr (as benzo(a)pyrene) for each incinerator except during periods of start-up and shutdown from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	25	Maximum Steam Production Limit <= 421,600 lbs of steam per boiler in any discrete four - hour block period. [N.J.A.C. 7:27-22.16(a)]	Monitored by integrated steam flow monitor continuously over a distinct four hour block period. [N.J.A.C. 7:27-22.16 (o)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	26	Opacity <= 10 % except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.15109 (b) and 40 CFR 60.58b(a)(1). [40 CFR 60.39b(d)] &.	Opacity: Monitored by continuous opacity monitor continuously, based on 6 minute blocks. The continuous opacity monitoring system shall conform to Performance Specification 1 in 40 CFR 60, appendix B.	Opacity: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. All	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years	✓	

Make additional copies of this form if needed.

Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	27	Nitrogen oxides (NOx) <= 205 ppmvd @ 7% O2 , 24-hour daily arithmetic average (midnight to midnight) from each MWC except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is	Nitrogen oxides (NOx): Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. Monitor as specified at 40 CFR 60.58b(h)(5). EPA Reference Method 19, section 4.1 shall be used for	Nitrogen oxides (NOx): Recordkeeping by strip chart or data acquisition (DAS) system continuously. All 1-hour average nitrogen oxide concentrations shall be recorded and be available for submittal or review onsite by an inspector. This is as	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1,	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	28	Particulate Emissions <= 25 mg/dscm @ 7% O2 from each MWC on and after April 28, 2009, except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is	Particulate Emissions: Monitored by stack emission testing annually, based on the average of three 1-hour tests. See stack testing requirements in U1 OS0. Monitoring is based on the requirements at	Particulate Emissions: Recordkeeping by stack test results annually. See stack testing requirements in U1 OS0. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [N.J.A.C. 7:27-22.16(o)]	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	29	Lead Emissions <= 0.4 mg/dscm @ 7% O2 from each MWC on and after April 28, 2009, except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14106	Lead Emissions: Monitored by stack emission testing annually, based on the average of three 1-hour tests. See stack testing requirements in U1 OS0. Monitoring is based on the Method 29 requirements at 40 CFR	Lead Emissions: Recordkeeping by stack test results annually. See stack testing requirements in U1 OS0. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	30	Cadmium Emissions <= 0.035 mg/dscm @ 7% O2 from each MWC on and after April 28, 2009 except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is	Cadmium Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack testing requirements in U1 OS0. Monitoring requirements are	Cadmium Emissions: Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in U1 OS0. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9). [40 CFR	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [N.J.A.C. 7:27-22.16(o)]	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	31	Mercury Emissions <= 0.05 mg/dscm @ 7% O2 or 15 percent of the potential mercury emission concentration (85-percent reduction by weight), corrected to 7% oxygen, whichever is less stringent, from each MWC on and after April	Mercury Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack testing requirements in U1 OS0. Monitoring is based on the requirements of 40 CFR	Mercury Emissions: Recordkeeping by stack test results annually. See stack testing requirements in U1 OS0.. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9)(i). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [N.J.A.C. 7:27-22.16(o)]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	32	SO2 <= 29 ppmvd @ 7% O2 , or 25% of the potential sulfur dioxide emission concentration (75 percent reduction by weight or volume) whichever is less stringent, from each MWC except during	SO2: Monitored by continuous emission monitoring system continuously, based on a daily average (a 24-hour daily geometric average), or a daily geometric average percent reduction using EPA Reference	SO2: Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall maintain records of all 1-hour average sulfur dioxide emission concentrations. This is as specified	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	33	HCl Emissions <= 29 ppmvd @ 7% O2 or 5% of the potential hydrogen chloride emission concentration (95 percent reduction by weight or volume) whichever is less stringent, from each MWC except during periods of startup	HCl Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack testing requirements in U1 OS0. Monitoring, including determining % reduction is based on the	HCl Emissions: Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in U1 OS0. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [None]	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	34	Dioxins/Furans (Total) <= 35 ng/dscm @ 7% O2. On and after April 28, 2009, the emission limit for designated facilities that employ an electrostatic precipitator-based emission control system is 35 nanograms per	Dioxins/Furans (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack testing requirements in U1 OS0. Monitoring is as required at 40	Dioxins/Furans (Total): Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in U1 OS0. This is as specified at 40 CFR 60.59b(d)(9)(i). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS0. [N.J.A.C. 7:27-22.16 (o)]	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	35	CO <= 100 ppmvd @ 7% O2 from each MWC except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14109 (b), 40 CFR 60.34b(a) and 40 CFR 60.58	CO: Monitored by continuous emission monitoring system continuously, based on a 1 hour block average which shall be used to calculate a 4-hour block average. The continuous emission monitoring system shall be operated according to	CO: Recordkeeping by strip chart or data acquisition (DAS) system continuously. All 1-hour average CO concentrations shall be recorded and available for submittal to the administrator or review onsite by an inspector. This is as stated at	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	36	The facility must not cause to be discharged to the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) in excess of 5 percent of the observation	Monitored by visual determination annually, based on the average of three tests Compliance with fugitive ash emission limits shall be based on a series of three one hour observations, performed annually.	Other: Maintain records of annual method 22 results along with all supporting calculations. This is as specified at 40 CFR 60.59b(d)(9). [40 CFR 60.39b (d)]&[40 CFR 62.14109(a)].	None	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	37	The owner/operator of a municipal waste combustor must comply with the MWC operating practice requirements codified under 40 CFR 60.53b (b) and (c) of NSPS Subpart Eb. [40 CFR 62.14104]	None	None	None	✓	
U1, OS1 Normal, OS3 Normal, OS5 Normal	38	The temperature at the particulate control device inlet shall not exceed the maximum demonstrated particulate matter control device temperature as defined in 40 CFR 60.51b by more than 17 degrees Celsius,	Monitored by temperature instrument continuously, based on a 1 hour block average which shall be used to calculate 4-hour block arthithmetic avarages, based on the requirement at 40 CFR 60.58b(i)(7).	Recordkeeping by strip chart or data acquisition (DAS) system continuously Continuously recorded data may be printed periodically and stored in a permanent form suitable for submittal or on-site inspection.	None	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, OS1 Normal, OS3 Normal, OS5 Normal	39	No owner or operator of an affected facility shall cause it to operate at a load level greater than 110 percent of the maximum demonstrated municipal waste combustor unit load as defined in 40 CFR 60.51b, except: (1) During the annual	Other: The owner or operator shall operate a steam or feedwater flow meter on a continuous basis, as required at 40 CFR 60.58(i)(6)(i). Steam (or feed water flow) flow calculations as required under 40 CFR 60.58(i)(6)(i) shall be in	Recordkeeping by strip chart or data acquisition (DAS) system continuously continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection, based on the requirment at 40 CFR 60.58(	None	✓	
U1, Emergency Malfunction OS2, OS4, OS6	5	EMERGENCY MALFUNCTION: The duration of emission excursions caused by malfunctions shall not exceed the following limits per occurence and percent of operating time: SO2 180min. 2%	Monitored by continuous emission monitor upon occurrence of event (and hour time monitor). [N.J.A.C. 7:27-22.16 (e)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. Data may be periodically printed and maintained reliably in a log book on site. [N.J.A.C. 7:27-22.16(o)]	None	✓	

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Section 4
Summary of the results from Stack Testing and Monitoring

Instructions
Complete this form if the permit required stack emissions testing, continuous emissions monitors or continuous opacity monitors.

Subject Item U / BP	OS / Ref #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	In Compliance?	
						Yes	No
U1, Emergency Malfunction OS2, OS4, OS6	6	EMERGENCY MALFUNCTION: The duration of operating requirement excursions caused by malfunctions shall not exceed the following limits per occurrence and percent of operating time: Temperature 60min. 0.1% [N.J.A.C. 7:27-22.16(e)]	Monitored by parametric monitoring system upon occurrence of event (temperature monitor and hour time monitor). [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. Data may be periodically printed and maintained reliably in a log book on site. [N.J.A.C. 7:27-22.16(e)]	None	✓	
U1, Emergency Malfunction OS2, OS4, OS6	9	EMERGENCY MALFUNCTION: Any visible emission caused by a malfunction shall not exceed an average of 10% opacity in any 6 minute block period, as determined by the continuous emission	Monitored by continuous opacity monitor upon occurrence of event, based on 6 minute blocks. [N.J.A.C. 7:27-22.16 (e)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Data may be periodically printed and maintained reliably in a log book on site. [N.J.A.C. 7:27-22.16(e)]	None	✓	

Make additional copies of this form if needed.

Section 5
Compliance Status

Instructions
Please read these instructions prior to completing the following form.

1. Subject Item: List each subject item from Section D, Compliance Plan and Inventories, of the operating permit in this column. Subject items include Facility (FC), Group (GR), Non-Source Fugitive Emissions (FG), Insignificant Source (IS), Batch Process (BP), and Emission Unit (U). (Operating Scenario and Reference Numbers are required only for Non-Compliance permit requirements. See item 2 below).

2. Compliance Status: Provide compliance status for each subject item in this column. If all the permit requirements for a subject item (for example an emission unit) are in compliance, write "In Compliance". If one or more permit requirements are out of compliance for a particular subject item, provide the Operating Scenario and Reference Number for each out of compliance requirement in the first column and write "Non-Compliance" in the 2nd column. (Reference Numbers for each applicable requirement are located in the first column of Facility Specific Requirements, Section D of the permit).

3. Method Used to Determine Compliance: Describe how compliance was determined in this column. If all the permit requirements for a subject item (for example an emission unit) are in compliance, write "Consistent with all methods listed in monitoring and recordkeeping permit requirements". If one or more permit requirements are out of compliance for a particular subject item, provide the Operating Scenario and Reference Number for each out of compliance requirement in the first column and provide specific method used to determine compliance in the 3rd column.

4. Compliance Schedule: insert a "No" if there are no compliance schedules included in this application to address non-compliance issues for which "Non-Compliance" was inserted in the 2nd column. Insert a "Yes" if a compliance schedule is included in this renewal application to address non-compliance issues in the approved permit or non-compliance issues disclosed in this application.

Section 5
Compliance Status

Instructions
Read the instructions on the previous page before completing this form.

Subject Item OS / Ref #	Compliance Status (In Compliance Non-Compliance)	Method Used to Determine Compliance	Is a Compliance Schedule Attached? (Yes/No)
Subject Item FC *OS / Ref #*	In Compliance	Consistent with all methods listed in monitoring and record keeping permit requirements	No
Subject Item IS1 *OS / Ref #*	In Compliance	Consistent with all methods listed in monitoring and record keeping permit requirements	No
Subject Item IS2 *OS / Ref #*	In Compliance	Consistent with all methods listed in monitoring and record keeping permit requirements	No

Make additional copies of this form if needed.

Section 5
Compliance Status

Instructions
Read the instructions on the previous page before completing this form.

Subject Item OS / Ref #	Compliance Status (In Compliance Non-Compliance)	Method Used to Determine Compliance	Is a Compliance Schedule Attached? (Yes/No)
Subject Item IS3 *OS / Ref #*	In Compliance	Consistent with all methods listed in monitoring and record keeping permit requirements	No
Subject Item GR1 *OS / Ref #*	In Compliance	Consistent with all methods listed in monitoring and record keeping permit requirements	No
Subject Item U1 *OS / Ref #* OS Summary Ref.71	In Compliance	Intermittent non-compliance as measured by CEMS. See Appendix B for details of non-compliance events	No

Make additional copies of this form if needed.

Section 5
Compliance Status

Instructions
Read the instructions on the previous page before completing this form.

Subject Item OS / Ref #	Compliance Status (In Compliance Non-Compliance)	Method Used to Determine Compliance	Is a Compliance Schedule Attached? (Yes/No)
Subject Item U1 *OS / Ref #* OS Summary Ref.26	In Compliance	Intermittent non-compliance as measured by CEMS. See Appendix B for details of non-compliance events	No
Subject Item U1 *OS / Ref #* OS Summary Ref.48		Intermittent non-compliance as measured by CEMS. See Appendix B for details of non-compliance events	
Subject Item *OS / Ref #*	In Compliance		

Make additional copies of this form if needed.

Section 5
Compliance Status

Instructions
Read the instructions on the previous page before completing this form.

Subject Item OS / Ref #	Compliance Status (In Compliance Non-Compliance)	Method Used to Determine Compliance	Is a Compliance Schedule Attached? (Yes/No)
Subject Item U1 *OS / Ref #* OS1,OS3, OS5 Ref. #6	In Compliance	Intermittent non-compliance as measured by CEMS. See Appendix B for details of non-compliance events	No
Subject Item U1 *OS / Ref #* OS1,OS3, OS5 Ref. #11	In Compliance	Intermittent non-compliance as measured by CEMS. See Appendix B for details of non-compliance events	No
Subject Item U1 *OS / Ref #* OS1,OS3, OS5 Ref. #25	In Compliance	Intermittent non-compliance as measured by CEMS. See Appendix B for details of non-compliance events	No

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Section 5
Compliance Status

Instructions
Read the instructions on the previous page before completing this form.

Subject Item OS / Ref #	Compliance Status (In Compliance Non-Compliance)	Method Used to Determine Compliance	Is a Compliance Schedule Attached? (Yes/No)
Subject Item U1 *OS / Ref #* OS1,OS3, OS5 Ref. 26	In Compliance	Intermittent non-compliance as measured by CEMS. See Appendix B for details of non-compliance events	No
Subject Item U1 *OS / Ref #* OS1,OS3, OS5 Ref.# 35	In Compliance	Intermittent non-compliance as measured by CEMS. See Appendix B for details of non-compliance events	No
Subject Item U5 *OS / Ref #* OS Summary	In Compliance	Consistent with all methods listed in monitoring and recording permit requirements	No

Make additional copies of this form if needed.

Section 5
Compliance Status

Instructions
Read the instructions on the previous page before completing this form.

Subject Item OS / Ref #	Compliance Status (In Compliance Non-Compliance)	Method Used to Determine Compliance	Is a Compliance Schedule Attached? (Yes/No)
Subject Item U6 *OS / Ref #* OS Summary	In Compliance	Consistent with all methods listed in monitoring and recording permit requirements	No
Subject Item U7 *OS / Ref #* OS Summary	In Compliance	Consistent with all methods listed in monitoring and recording permit requirements	No
Subject Item U8 *OS / Ref #* OS Summary	In Compliance	Consistent with all methods listed in monitoring and recording permit requirements	No

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Section 5
Compliance Status

Instructions
Read the instructions on the previous page before completing this form.

Subject Item OS / Ref #	Compliance Status (In Compliance Non-Compliance)	Method Used to Determine Compliance	Is a Compliance Schedule Attached? (Yes/No)
Subject Item U9 *OS / Ref #* OS Summary	In Compliance	Consistent with all methods listed in monitoring and recording permit requirements	No
Subject Item U9 *OS / Ref #* OS1, OS3 - OS10	In Compliance	Consistent with all methods listed in monitoring and recording permit requirements	No
Subject Item U9 *OS / Ref #* OS2	In Compliance	Consistent with all methods listed in monitoring and recording permit requirements	No

Make additional copies of this form if needed.

Section 5
Compliance Status

Instructions
Read the instructions on the previous page before completing this form.

Subject Item OS / Ref #	Compliance Status (In Compliance Non-Compliance)	Method Used to Determine Compliance	Is a Compliance Schedule Attached? (Yes/No)
Subject Item U10 *OS / Ref #* OS Summary	In Compliance	Consistent with all methods listed in monitoring and recording permit requirements	No
Subject Item U10 *OS / Ref #* OS1	In Compliance	Consistent with all methods listed in monitoring and recording permit requirements	No
Subject Item *OS / Ref #*	In Compliance		No

Make additional copies of this form if needed.

Section 5
Compliance Schedules

Instructions
Complete this form if the permit included any compliance schedules (Section D of the permit) or if there are any non-compliance issues at the time of completing this application form. Check the appropriate box to indicate whether the compliance schedule has been updated, removed, or added.

Subject Item OS / Ref #	Requirement	Compliance Schedule	Compliance Schedule		
			Updated	Removed	Added
Subject Item	There are no Compliance schedules in Section D of	the permit			
OS / Ref #					
Subject Item					
OS / Ref #					
Subject Item					
OS / Ref #					

Make additional copies of this form if needed.

Appendix A

Camden County Energy Recovery Associates, L. P.

Compliance Assurance Monitoring (CAM) Plan

Under the CAM rule (40 CFR 64), the Camden County Resource Recovery Facility is subject to CAM requirements for emissions and control devices listed below:

Control Device	Control device Inventory Designation	Emissions Controlled
Electrostatic Precipitator	CD2, CD4, CD6	Particulate (PM-10)
Dry Scrubber	CD1, CD3, CD5	Acid Gasses (SO2, HCl)
Overfire-Air Combustion Control	None – Included to assure compliance with NOx Control Plan	NOx, Dioxins (TCDD), VOC
Activated Carbon Injection	CD11, CD12, CD13	Mercury (Hg)

Note: Particulate control devices CD7, CD8, CD9, CD10, CD14 are not subject to CAM, however the facility Title V permit contains specific monitoring and recordkeeping requirements for each control device which are consistent with recommended CAM approaches in the guidance documents associated with 40 CFR 64.

In comparing the facility Title V Permit to the CAM examples in the guidance documents for the development of CAM plans provided at http://www.epa.gov/ttn/emc/cam/draftcamappb.pdf,

NJDEP has structured the facility Title V Permit, specifically the monitoring, recordkeeping, and submittal requirements to be consistent with requirements applicable under the CAM rule.

Camden County Energy Recovery Associates (CCERA) has adopted a strategy to implement CAM requirements through the Compliance Plan (Section J) of the Title V Permit, and reports, logs and checklists collected by facility operators.

In most cases, CCERA contends that there is sufficient depth and breadth within the existing Permit such that conditions and requirements that may normally be part of a separate Compliance Assurance Monitoring Plan (CAM Plan) are already included within the Permit. The CAM rule requires control ranges on specific operating parameters, which are presented in the tables below for each control device.

Each control device, and each emission point, have permit requirements which require specific monitoring, recordkeeping, and submittal requirements to ensure compliance. The tables below indicate for each control device, the parameters to be monitored as recommended in the CAM examples, and typical operating ranges for each.

Table 1-1 Summary of Performance Indicators for Electrostatic Precipitator (PM-10, trace metals)

Parameter	Compliance Plan Permit References	Performance Indication	Monitoring Method (CEM, COM, DCS, Operator)	Monitoring or Recording Frequency	Operating Range
Outlet PM concentration	FC-13, U1-OS-(2-7), U1-OS-49	PM concentration is the most direct indicator of ESP performance	Emissions Testing	Annual	< Permit Limits
Trace Metal Concentration (As, Be, Ni, Cd, Pb, Cr+6)	U1-OS-10	Indication of emissions, tied to ESP performance	Emissions Testing	Annual	< Permit Limits
Opacity	FC-14	COMS, opacity observations or visible/no visible emissions	COMS	Continuous	<10%
Secondary Corona Power	U1-OS-97	Performance usually increases as power input increases. Can help identify any fields that are not operating	Belco (Automatic) Reporting	Continuous	> 30kw total
Secondary Current	U1-OS-98	Partial indicator of power consumption, too low indicates malfunction. Can help identify fields which are not operating properly	Belco (Automatic) Reporting	Continuous	>60mA
Secondary Voltage	U1-OS-98	Partial indicator of power consumption, too low indicates potential grounded electrode. Can help identify fields which are not operating properly	Belco (Automatic) Reporting	Continuous	>30kV
Inlet gas temperature	U1-OS-44	Temperature affects resistivity of particulate. Too low causes excessive sparking.	CEMS	Continuous	295-360 degF, not to exceed 30degF higher than dioxin test

Table 1-2 Summary of Performance Indicators for Dry Scrubber (SO2, HCl)

Parameter	Compliance Plan Permit References	Performance Indication	Monitoring Method (CEM, COM, DCS, Operator)	Monitoring or Recording Frequency	Operating Range
SO2 outlet concentration	U1-OS-1	Indication of actual emissions	CEM	Continuous	<29 ppm (automatic slurry control above 15 ppm)
HCl outlet concentration	U1-OS-8	Indicator of actual emissions	Emissions Test	Annually	< permit limits
Scrubber Liquid (Lime slurry) flow rate	U1-OS-95	Insufficient flow will result in insufficient acid gas reductions	DCS, (Automatic control from CEM)	Continuous monitoring with hourly recording	5-20 gpm, typically 6-10 gpm
Scrubber liquid pH	U1-OS-96	Can detect inadvertent dilution of lime slurry	DCS	Continuous monitoring with hourly recording	8-12.5 std. units
Lime Slurry specific gravity	None	Measure of the available CaO to react in the scrubber. Too high causes improper slurry atomization, too low will result in insufficient acid gas reduction	Operator	Every 4 hours	1.08-1.12 g/cc
Scrubber gas outlet temperature	U1-OS-44	Indicator of effective atomization of scrubber medium	CEMS	Continuous	295-360 degF, not to exceed 30degF higher than dioxin test

Table 1-3 Summary of Performance Indicators for Activated Carbon Injection (Hg)

Parameter	Compliance Plan Permit References	Performance Indication	Monitoring Method (CEM, COM, DCS, Operator)	Monitoring or Recording Frequency	Operating Range
Carbon Feed rate	U1-OS-(99-106)	Less than minimum from optimization test may result in lower removal efficiency	Auger speed continuous, feed rate verified daily	Monitored continuously, recorded hourly, actual test recorded daily	27.7 (min) lb/hr, Usually maintained at 29-32 lb/hr to prevent actual delivery less than minimum rate
ESP Outlet temperature		Affects ESP efficiency for removing carbon from flue gas, too low will accelerate corrosion of the casing and lead to casing air leaks	Continous	Monitored continuously, tied to ESP inlet temperature	260-340degF
Volumetric Inventory Check	U1-OS-104	Verification that daily feed rate checks are confirmed by actual usage based on change in inventory	Monthly	Monthly (via EEMPR)	> 1.86 lb/ton processed
Mercury Emissions	U1-OS-9, U1-OS-(31-36)	Indication of actual emissions and removal efficiency	Emissions test	Quarterly or Annually based on performance	< Permit Limit

Table 1-4 Summary of Performance Indicators for Combustion Control / Overfire Air Control (VOC, NOx, Dioxins, CO)

Parameter	Compliance Plan Permit References	Performance Indication	Monitoring Method (CEM, COM, DCS, Operator)	Monitoring or Recording Frequency	Operating Range
Outlet CO concentration	U1-OS-41	High CO emissions indicate improper combustion	CEMS	Continuous	< 100 ppm
Outlet dioxin concentration	U1-OS-11	Measurement of emissions	Emissions test	Annually	<30ng/dscfm
Outlet VOC emissions	U1-OS-29	Measurement of emissions	Emissions test	Annually	<3.5 lb/hr
NOx emissions	U1-OS-30	Measurement of emissions in accordance with the NOx Control Plan	CEM	Continuous	< 205 ppm, <612 tpy
Furnace temperature at the thermocouples located at the 216' 6" elevation	U1-OS-(69-72,)	Low temperature indicates poor combustion, and insufficient temperature to facilitate the completion of all combustion reactions. High temperature indicates boiler fouling and/or overfiring.	CEMS (Thermocouples)	Continuous	In accordance with permit requirements during start-up, during sustained operation 1000-1350degF
Boiler exit O2 level	U1-OS-(73-75)	High O2 indicates an interruption to good combustion, low O2 indicates over firing	CEM	Continuous	3-11%
Combustion Air flow rate		Indicates a deviation from normal combustor operation. High air flow rate indicates loss of a combustion air seal at the feed chute or ash extractor	Continuous	Continuous monitoring with hourly recording	150,000-195,000 pph, based on boiler steam load

The Compliance Status of each requirement is documented in Section 6 of the Permit renewal Application. The following discussion describes the facility strategy for how the Compliance Plan is implemented.

Requirements that require verification more frequently than once per day are tracked via Operator Logs. Observations are recorded on operator's round sheets and data measurements are taken by the Bailey Distributed Control System (Boiler, turbine, and auxiliaries), Belco Control System (Lime Slaker, Scrubber, and ESP), the DRDAS Continuous Emissions Monitoring data acquisition system. Each of the automated systems does a data reduction daily, and generates a paper summary. Each of the automated systems also generates an automated alarm or exception report, which can also be used to determine if compliance parameters were maintained.

All daily or more frequent requirements are reviewed as part of the Shift Supervisor's Daily Compliance Checklist. On a daily basis, the Shift Supervisor confirms that these observations, measurements, or parameters were checked to determine compliance, and if a non-compliance event occurred, that it was documented and reported in accordance with plant procedures and/or permit requirements.

Observations, tests, or compliance verifications that are done weekly or less frequent are entered into our task management system known as MP2. MP2 has the ability to schedule and track completion of tasks on any prescribed frequency. On at least a weekly basis, all current tasks in MP2 are reviewed to determine what is due and what is coming due, such that all testing, observation, and report requirements can be timely met. These tasks are intentionally set up to allow for permit-required planning requirements to be be met. (Example: Submission of test protocols at least 45 days in advance of requested stack testing dates)

Examples of tasks tracked via MP2 include monitoring of auxiliary fuel usage, calculation and tracking of CEM monitor downtime, observations of the lime and carbon silo fabric filters, and verifying the actual carbon feed rate by inventory calculation.

On a quarterly basis, the requirements and certification of Excess Emission Reports (EEMPRs) and/or Semi-Annual Deviation reports require a self-audit of all permit requirements. Annually, we conduct an audit prior to submission of our Annual Compliance Certification.

Additional tasks performed as part of permit implementation are listed with the relevant permit condition in the Compliance Status section of the Permit Renewal Application.

Appendix B

Provide below is a Summary of CEMS/COMS monitoring events for the period beginning on the issuance date of the current Title V permit of August 11, 2015 through Decemebr 21, 2019. These events were reported to NJDEP in accordiance with notification requirements in a timely manner as well as in the appropriate quarterly, semi-annual, and annual reports.

Summary of Excess Emissions Events For the Period from August 11, 2015 through April 10, 2018

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
15-09-05-0553-54	09/05/15	2	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler B (E2) caused by plugged ash hopper.
15-10-02-1117-40	10/02/15	2	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler B (E2) caused by severe rain event.
15-10-18-0702-28 15-10-18-0707-36	10/17/15	1	O2	Oxygen 3% or greater for any 5 minute block	2	U1, OS Summary Ref. # 71	Oxygen level fell below 5-min block average minimum level of >=3% by volume average on a dry basis on two occasions for Boiler A (E1) due to combustion air fans shutdown
15-10-17-1231-46	10/17/15	3	Opacity	10% or less for a 6-minute block average	1	U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) caused by broken Insulator.

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
15-10-18-2352-34	10/18/2015	1	O2	Oxygen 3% or greater for any 5 minute block	1	U1, OS Summary Ref. # 71	Oxygen level fell below 5-min block average minimum level of >=3% by volume average on a dry basis on two occasions for Boiler A (E1) due to combustion air fans shutdown
15-12-06-0202-12	12/06/15	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) caused by rapper control failure.
16-01-04-2133-35	01/04/16	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) mechanical rappers in C Electrostatic Precipitator (ESP) failed to cycle properly.
16-02-01-1258-52	02/01/16	2	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to a water tube failure in the furnace which caused immediate boiler shutdown in boiler B (E2).
16-02-11-1106-39	02/11/16	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) due to mechanical rapper the outlet distribution plate (Rapper C-602) failed to cycle properly.

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
16-02-13-1533-24	02/13/16	2	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref.	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler B (E2) due to the fifth field of Boiler B began to spark, ramped down and tripped without any warning. TR2-5.
16-02-18-0754-30	02/18/16	2	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to an electrode counterweight mechanically come apart, causing the high-voltage electrode from the fourth field to come into close clearance with collector plates in the fifth field, causing the fifth field to ramp to a lower secondary voltage.fifth field of Boiler B (E2) began to spark, ramped down and tripped without any warning.
16-02-24-1622-58	02/24/16	2	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in fifth field of Boiler B (E2) (TR2-5) trip.
16-02-28-0334-36	02/28/16	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in The fourth field of Boiler C (E3) (TR3-4) trip.

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
16-04-06-1148-00	04/06/16	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to The mechanical rapper on the final (5th) field electrodes (Rapper C-503) in Boiler C (E3) Electrostatic Precipitator (ESP) failed to cycle properly.
16-06-07-1856-31	4/7/2016	3	O2	Oxygen 3% or greater for any 5 minute block	1	U1, OS Summary Ref. # 71	Oxygen level fell below 5-min block average minimum level of >=3% by volume average on a dry basis on two occasions for Boiler C (E3) due to combustion air fans shutdown
16-07-12-1651-08	07/12/16	1	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1,	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler A (E1) due to TR-4 transformer breaker trip
16-08-10-1250-12	08/10/16	2	CO	CO emission 100 ppmdv & or less @7%O2	1	U1, OS1, OS3, OS5 Normal Ref. #35	Emission exceeded 100 ppm CO as measured by CEMS due to high BTU fuel fed to Boiler B (E2).
16-09-05-0514-40	09/05/16	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) due to ESP third field failed; intermitten ground fault alarm observed.

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
16-09-15-2156-31	09/15/16	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) due to ash build up on stand off and rapper intesity being too high. New rappers installed and the intensity was higher.
16-11-11-0439-41	11/11/16	2	Steam Flow	Steam 421,600 lbs. or less for a 4 hour block period	1	U1, OS1, OS3, OS5 Normal Ref. #25	Emission exceeded Steam production limit 421.6 klb per 4-hr average as measured by CEMS due to operator error.
16-12-01-0020-48	12/1/2016	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) due to
16-12-04-1112-33	12/04/16	3	SO2	SO2 50 ppmvd @ 7% O2 but not exceed 100 ppm 3 hour rolling	1	U1, OS1, OS3, OS5 Normal Ref. #6	Emission exceeded 3-hr rolling SO2 as measured by CEMS due to high SO2 fuel and correction factor data inflation
16-12-08-0206-55	12/08/16	2	Opacity	10% or less for a 6-minute block average	3	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to TR2-5 Trip ; Broken electodes found in Boiler B (E2)

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
16-12-30-2043-04	12/30/16	2	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to TR2-5 Trip ; Direct short between electrodes and plate due to corrosion material in Boiler B(E2) .
17-02-01-1244-53	02/01/17	1	Opacity	10% or less for a 6-minute block average	2	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler A (E1) due to ESP breaker trip on protective overload.
17-02-01-1244-53	02/01/17	2	Opacity	10% or less for a 6-minute block average	2	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler B (E2) due to ESP breaker trip on protective overload.
17-02-03-0558-12	02/03/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) due to damage to ESP hopper.
17-02-04-2133-48	02/04/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) due to damage to ESP hopper.

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
17-02-09-1349-58	02/09/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) due to damage to ESP hopper.
17-02-11-1638-45	02/11/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) due to damage to ESP hopper.
17-03-06-1634-23	03/06/17	1	SO2	SO2 50 ppmvd @ 7% O2 but not exceed 100 ppm 3 hour	1	U1, OS1, OS3, OS5 Normal Ref. #6	Emission exceeded 3-hr rolling SO2 above 50ppm at 7%O2 and below 8/0% reduction in Boiler A (E1) due to high sulfur fuel fed to boiler.
17-04-11-1121-42	04/11/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler C (E3) due to broken electrodes.
17-06-21-1608-29	06/21/17	2	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler B (E2) due to ESP TR2-5 trip on undervoltage.

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
17-10-07-0653-26	10/07/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to lost of ID Fan following an electrical malfunction on Boiler C (E3).
17-10-07-0653-26	10/07/17	3	CO	CO emission 400 ppmdv & or less @7%O2 1 hour block	1	U1, OS1, OS3, OS5 Normal Ref. #35	Emission exceeded 1-hr rolling CO above 400ppm at 7%O2 in Boiler C (E3) due an electrical malfunction resulting in the loss of the boiler combustion air fan.
17-10-07-0653-26	10/07/17	3	CO	CO emission 100 ppmdv & or less @7%O2 4 hour block	1	U1, OS1, OS3, OS5 Normal Ref. #35	Emission exceeded 4-hr rolling CO above 100ppm at 7%O2 Boiler C (E3) due an electrical malfunction resulting in the loss of the boiler combustion air fan.
17-10-11-1423-04	10/11/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to Field 3 Upper dump valve not closing properly on Boiler C(E3).
17-10-15-0544-00	10/14/2017	1	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to Field 5 Upper dump valve not closing properly on Boiler A (E1).

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
17-10-23-1039-43	10/23/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due suspected short in Field 4 Boiler C (E3).
17-11-27-0033-52	11/27/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to damaged on Field 5 Collector Plate Boiler C (E3).
17-12-14-0944-28	12/14/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Boiler A (E1) experienced a plugged feed screw that resulted in more than 3 hours of carbon feed downtime. Facility was able to maintain 8-Hr block feedrate of 32.6 lb/hr (limit 31.2 lbs/hr)
17-12-15-2216-32	12/15/17	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to failed insulation on transfer high voltage cable on Boiler C (E3).
18-01-25-0905-11	01/25/18	1	Opacity	10% or less for a 6-minute block average	2	OS Summary, Ref. #48 U1, OS1, OS3, OS5	Emission exceeded 10% Opacity as measured by COMS due to an unexplained event on Boiler A (E1).

Incident #	Date	Unit #	Pollutant Parameter	Title V Permit Limit	Number of Periods Above Limit	Title V Permit Condition	Reason for Event
18-02-17-0031-54	02/16/18	1	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1,	Emission exceeded 10% Opacity as measured by COMS due to ESP malfunction in Boiler B (E2) due to ID fan control failure.
18-03-01-0329-31	03/01/18	2	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to short in Field 5 Boiler B (TR3-5).
18-03-09-1024-32	03/09/18	2	CO	CO emission 100 ppmdv & or less @7%O2 4 hour block	1	U1, OS1, OS3, OS5 Normal Ref. #35	Emission exceeded 4-hr rolling CO above 100ppm at 7%O2 Boiler C (E3) due an electrical malfunction resulting in the loss of the boiler combustion air fan.
18-03-26-1211-11	03/26/18	3	Opacity	10% or less for a 6-minute block average	1	OS Summary, Ref. #48 U1, OS1, OS3, OS5 Normal Ref. #26	Emission exceeded 10% Opacity as measured by COMS due to short in Field 5 Boiler C (TR3-5).