



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

**BUREAU OF AIR MANAGEMENT
TITLE V OPERATING PERMIT**

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	026-0055-TV
Client/Sequence/Town/Premises Numbers	6590/2/026/202
Date Issued	August 21, 2015
Expiration Date	August 21, 2020

Corporation:

Covanta Bristol, Inc.

Premises Location:

170 Enterprise Drive, Bristol, Connecticut 06010

Name of Responsible Official and Title:

Leon Plumer, Facility Manager

All the following attached pages, 2 through 34 are hereby incorporated by reference into this Title V permit.

/s/Anne Gobin for
Robert J. Klee
Commissioner

August 21, 2015
Date

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Title V Operating Permit

All conditions in Sections III, IV, and VI of this Title V permit are enforceable by both the Administrator and the commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this Title V permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, and VI of this Title V permit in accordance with the Clean Air Act, as amended.

LIST OF ABBREVIATIONS/ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
°C	Degree Celcius
°F	Degree Fahrenheit
BACT	Best Available Control Technology
Be	Beryllium
CEMS	Continuous Emission Monitor System
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
dscfm	Dry standard cubic feet per minute
dscm	Dry standard cubic meters
EU	Emissions Unit
EPA	Environmental Protection Agency
GEU	Grouped Emissions Unit
gph	Gallons per Hour
HAP	Hazardous Air Pollutant
hp	Horse Power
h	Hour
H ₂ SO ₄	Sulfuric Acid
kV	Kilovolt
lb	Pound
lb/h	Pounds per Hour
MASC	Maximum Allowable Stack Concentration
mg	Milligrams
MMBtu	Million British Thermal Units
MSDS	Material Safety Data Sheet
MSW	Municipal Solid Waste
MW	Megawatts
MWC	Municipal Waste Combustor
ng	Nanograms
NESHAP	National Emission Standards for Hazardous Air Pollutants
NH ₃	Ammonia
Nm ³	Normal Cubic Meters
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
NSR	New Source Review
O ₂	Oxygen
PAH	Polynuclear Aromatic Hydrocarbons
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns
ppmvd	Parts per million, volumetric basis dry
psig	Pounds per Square Inch Guage
RACT	Reasonably Available Control Technology
RCSA	Regulations of Connecticut State Agencies
SDS	Spray Dryer Scrubber
SIC	Standard Industrial Classification Code

LIST OF ABBREVIATIONS/ACRONYMS (continued)

SNCR	Selective Non-catalytic Reduction
SO ₂	Sulfur Dioxide
SO _x	Sulfur Oxides
SOS	Standard Operating Scenario
TPD	Tons per day
tpy	Tons per year
VOC	Volatile Organic Compound

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Municipal Waste Processing
Primary SIC: 4953 Refuse Systems

Facility Mailing Address: Covanta Bristol, Inc.
170 Enterprise Drive
Bristol, CT 06010

Telephone Number: (860) 589-6470

B. PREMISES DESCRIPTION

This facility is a major source of NO_x, CO and HAP emissions.

The facility consists of two 358 TPD MWCs (one each: Zurn Industries waterwall furnace with Martin reverse acting stoker grate with natural gas-fired auxiliary burner system, **EU-1, -2**). The air pollution control system consists of spray dryer absorbers which use a lime slurry reagent for the control of acid gases; baghouses for the control of particulate matter and metals; Selective Non-catalytic Reduction systems (SNCR) for the control of NO_x and carbon injection systems for the control of mercury.

Flyash from the pollution control systems, superheaters and economizers is conditioned with Dolomitic lime, combined with quenched bottom ash and conveyed to a grizzly scalper for removal of large ferrous materials. The ash is then conveyed to the ash handling building where it passes under a rotating drum magnet for removal of additional ferrous materials. Ash and ferrous materials are separately conveyed to individual storage piles for removal.

There is also one General Electric turbine generator with a nameplate capacity of 16.3 MW, which is capable of receiving 152,500 lb of 850 psig steam @ 825°F. Power is generated at 13.8 kV and delivered to Connecticut Light and Power's Forestville Substation.

A Clarke Murphy MD6 diesel fire pump (**EU-3**) is located on the facility but is only operated during training, maintenance and in the case of emergency. The pump has a rated capacity of 109 hp and has a fuel usage rate of 7 gph (0.96 MMBtu/h).

Ancillary equipment include an ash handling system (**EU-4**) and a cold cleaner for miscellaneous part washing (**EU-5**).

Section II: Emissions Units Information

A. EMISSIONS UNITS DESCRIPTION

Emissions units are set forth in Table II.A. It is not intended to incorporate by reference these NSR Permits or Regulations into this Title V permit.

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Unit	Emissions Unit Description	Control Unit Description	Permit or Regulation Number
EU-1	358 TPD MWC	Spray dryer absorber, Baghouse, SNCR, Carbon injection	P-026-0026 RCSA §22a-174-38 40 CFR Part 61 Subpart C
EU-2	358 TPD MWC	Spray dryer absorber, Baghouse, SNCR, Carbon injection	P-026-0027 RCSA §22a-174-38 40 CFR Part 61 Subpart C
EU-3	Clarke Murphy MD6 Diesel Fire Pump	None	RCSA §§22a-174-3b, -22 40 CFR Part 63 Subpart <i>ZZZZ</i>
EU-4	Ash handling system	None	RCSA §22a-174-38
EU-5	Cold cleaner for miscellaneous parts washing	Cover	RCSA §22a-174-20(l)
GEU-1	EU-1, EU-2	As above	As above

B. OPERATING SCENARIO IDENTIFICATION

The Permittee shall be allowed to operate under the following Standard Operating Scenarios (SOS) without notifying the commissioner, provided that such operations are explicitly provided for and described in Table II.B.

TABLE II.B: OPERATING SCENARIO IDENTIFICATION		
Identification of Operating Scenario	Emissions Units Associated with the Scenario	Description of Scenario
SOS	All units are included in this standard operating scenario.	EU-1, EU-2 firing municipal solid waste, natural gas and/or special waste in accordance with the special waste handling plan. EU-3 firing diesel. EU-4 collects the bottom ash from each combustor and the fly ash from the baghouses. The ash is quenched in water troughs and conveyed to the ash handling building where it is loaded onto trucks for removal from the facility. EU-5 removes oil, grease and other material from small equipment parts using non-halogenated solvents.

Section III: Applicable Requirements and Compliance Demonstration

The following contains summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this Title V permit.

A. GROUPED EMISSION UNIT 1 [EU-1, EU-2], MWCs

(Subject to P-026-0026 and P-026-0027, RCSA §22a-174-38, 40 CFR Part 61 Subpart C)

1. PM, PM₁₀, Dioxin/furan, Hydrogen chloride, Cadmium, Lead, Mercury and Fugitive Emissions

a. Limitation or Restriction

i. PM [P-026-0026 and P-026-0027]

A. $\leq 3.0 \text{ lb/h}^1$

B. $\leq 13.3 \text{ tpy}$

ii. PM₁₀ [RCSA §22a-174-38]

$\leq 25 \text{ mg/dscm @ 7\% O}_2$

iii. Dioxin/furan [P-026-0026, P-026-0027 and RCSA §22a-174-38]

$\leq 30 \text{ ng/dscm @ 7\% O}_2 \text{ total mass}$

iv. Dioxin [P-026-0026, P-026-0027]

$\leq 1.95 \text{ ng/Nm}^3 \text{ @ 12\% CO}_2$, total toxic equivalence as defined in RCSA §22a-174-1

v. Hydrogen Chloride [P-026-0026, P-026-0027 and RCSA §22a-174-38]

$\leq 29 \text{ ppmvd @ 7\% O}_2$ or $\geq 95\%$ reduction by weight or volume, whichever is less stringent

vi. Cadmium [P-026-0026, P-026-0027 and RCSA §22a-174-38]

$\leq 0.035 \text{ mg/dscm @ 7\% O}_2$

vii. Lead [P-026-0026, P-026-0027 and RCSA §22a-174-38]

$\leq 0.400 \text{ mg/dscm @ 7\% O}_2$

viii. Mercury [P-026-0026, P-026-0027 and RCSA §22a-174-38]

$\leq 0.028 \text{ mg/dscm @ 7\% O}_2$ or $\geq 85\%$ reduction by weight, whichever is less stringent

¹ Based on 29900 dscfm (68 °F) and the corresponding pollutant concentration, except for VOC, which is based on 30231 dscfm @ 12 % CO₂. These flow rates are the average values from the dioxin and metals stack tests of this unit from 1996-2000. These values are considered representative of actual operation, subject to change during the course of normal operation.

Section III: Applicable Requirements and Compliance Demonstration

ix. Fugitive Ash Emissions [RCSA §22a-174-38]

The Permittee shall not cause to be discharged to the atmosphere visible emissions of combustion ash from the ash conveying system, including conveying transfer points, in excess of 5% of the observation period (i.e., nine minutes per three hour period).

b. *Monitoring Requirements*

- i.. The emissions limit and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction. The duration of each startup, shutdown or malfunction shall be limited to three hours per occurrence.
[RCSA §22a-174-38(c)(11)(A), P-026-0026 and P-0026-0027]
- ii. The Permittee of a MWC shall conduct an annual performance test for dioxin/furan, PM, PM₁₀, hydrogen chloride, cadmium, lead, mercury and fugitive ash at least once per calendar year. Such test shall be conducted no less than nine calendar months and no more than 15 calendar months following the previous performance test for such pollutant.
[RCSA §§22a-174-38(i)(2) and (4), P-026-0026 and P-026-0027]
- iii. For an air pollutant for which RCSA §22a-174-38(c) provides for an emission limit measured either as a concentration or as a percent reduction by weight or volume, the less stringent emission limit shall prevail. [RCSA §22a-174-38(c)(6), P-026-0026 and P-026-0027]
- iv. Dioxin/furan concentration: Notwithstanding RCSA §22a-174-38(i)(2), upon demonstration for two consecutive years that the dioxin/furan emission levels from all units at a MWC plant for which construction commenced prior to September 20, 1994 are less than 15 ng/dscm total mass or, for all units for which construction commenced after September 20, 1994, and are less than 7 ng/dscm total mass, the MWC Permittee shall only be required to conduct performance testing for dioxin/furan on one unit at that MWC plant. The Permittee shall rotate performance testing among units no more than 12 months following the previous performance test in a fixed sequence so that each unit is tested at the same frequency. If in any year following the year of election of such reduced testing, the dioxin/furan emission test result indicate a level equal to or greater than 15 ng/dscm total mass for any unit for which construction commenced prior to September 20, 1994, or greater than 7 ng/dscm total mass for any unit for which construction, modification or reconstruction commenced on or after September 20, 1994, then the MWC Permittee shall resume testing of all units at the MWC plant during the next annual performance test. The Permittee shall continue to test all units on an annual basis until the performance tests for all units indicate the dioxin/furan emission levels meet the requirements of this subdivision, at which time the Permittee may resume testing in accordance with this subdivision.
[RCSA §22a-174-38(i)(3)]
- v. Dioxin emissions: The original BACT limit of 1.95 ng/Nm³ is based on toxic equivalence in accordance with RCSA §22a-174-1. [P-026-0026 and P-026-0027]
- vi. Fugitive ash emissions: The emission limit specified in Section III.A.1.a of this Title V permit does not cover visible emission discharge inside buildings or within enclosures of ash conveying systems; however, the emission limit specified in Section III.A.1.a of this Title V permit does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash handling systems.
[RCSA §22a-174-38(f)(2)]

The emission limit specified in Section III.A.1.a of this Title V permit does not apply during the maintenance and repair of ash conveying systems, however, all reasonable measures to control fugitive

Section III: Applicable Requirements and Compliance Demonstration

emissions on such occasions shall be implemented. [RCSA §22a-174-38(f)(3)]

- vii. Annual emissions shall be calculated by adding the current month's emissions to the previous 11 months' emissions. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with dioxin/furan, particulate matter, hydrogen chloride, cadmium, lead, mercury and fugitive ash. [RCSA §22a-174-38(k)(10)]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.1.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)]
- ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the dioxin/furan, particulate matter, opacity, hydrogen chloride, cadmium, lead, mercury and fugitive ash emission levels achieved during all initial and annual performance tests. [RCSA §22a-174-38(l)(3)]
- iii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any dioxin/furan, PM, PM₁₀, opacity, hydrogen chloride, cadmium, lead, mercury and fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)]

2. Opacity, SO_x, NO_x and CO

a. Limitations or Restrictions

i. Opacity

≤ 10% opacity, 6 minute block average, as determined by CEMS
[P-026-0026, P-026-0027, RCSA §22a-174-38]

ii. SO_x [P-026-0026, P-026-0027 and RCSA §22a-174-38]

A. 8.6 lb/h (as SO₂)¹

B. 37.9 tpy

¹ Based on 29900 dscfm (68 °F) and the corresponding pollutant concentration, except for VOC, which is based on 30231 dscfm @ 12 % CO₂. These flow rates are the average values from the dioxin and metals stack tests of this unit from 1996-2000. These values are considered representative of actual operation, subject to change during the course of normal operation.

Section III: Applicable Requirements and Compliance Demonstration

- C. ≤ 29 ppmvd @ 7% O₂, 24 h geometric average of hourly arithmetic averages, as determined by CEMS or $\geq 75\%$ reduction by weight or volume, as determined by CEMS, whichever is less stringent
- iii. NO_x [P-026-0026, P-026-0027 and RCSA §22a-174-38]
 - A. EU 1: ≤ 120 ppmvd @ 7% O₂, 24 h daily average, as determined by CEMS
 - B. EU 1: 25.6 lb/h (as NO₂)¹
 - C. EU 1: 112.1 tpy
 - D. EU 2: ≤ 200 ppmvd @ 7% O₂, 24 h daily average, as determined by CEMS
 - E. EU 2: 43.9 lb/h (as NO₂)¹
 - F. EU 2: 192.3 tpy
- iv. CO [P-026-0026, P-026-0027 and RCSA §22a-174-38]
 - A. ≤ 100 ppmvd @ 7% O₂, 4 h block average, as determined by CEMS
 - B. 13.0 lb/h¹
 - C. 57.1 tpy

b. Monitoring and Testing Requirements

- i. The emissions limit and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction. The duration of each startup, shutdown or malfunction shall be limited to three hours per occurrence.
[RCSA §22a-174-38(c)(11)(A), P-026-0026 and P-026-0027]
- ii. For the purpose of compliance with the opacity emission limits, during each period of startup, shutdown or malfunction, the opacity limits shall not be exceeded during more than five 6-minute arithmetic average measurements. [RCSA §22a-174-38(c)(11)(B), P-026-0026 and P-026-0027]
- iii. For determining compliance with an applicable CO emission limit, if a loss of boiler water level control or a loss of combustion air control is determined to be a malfunction, the duration of the shutdown period shall be limited to 15 hours per occurrence.
[RCSA §22a-174-38(c)(11)(A), P-026-0026 and P-026-0027]
- iv. During periods of startup, shutdown or malfunction, monitoring data shall be excluded from calculations of compliance with the emission limits and operating requirements of this Title V permit, but shall be reported in accordance with RCSA §§22a-174-38(k) and (l).
[RCSA §22a-174-38(c)(11)(C)]

¹ Based on 29900 dscfm (68 °F) and the corresponding pollutant concentration, except for VOC, which is based on 30231 dscfm @ 12 % CO₂. These flow rates are the average values from the dioxin and metals stack tests of this unit from 1996-2000. These values are considered representative of actual operation, subject to change during the course of normal operation.

Section III: Applicable Requirements and Compliance Demonstration

- v. The Permittee shall install, calibrate, maintain and operate a CEMS for measuring opacity, SO_x, NO_x and CO emissions discharged to the atmosphere from each MWC unit and record the output of the system. [RCSA §22a-174-38(j), P-026-0026 and P-026-0027]
- vi. For an air pollutant for which RCSA §22a-174-38(c) provides for an emission limit measured either as a concentration or as a percent reduction by weight or volume, the less stringent emission limit shall prevail. [RCSA §22a-174-38(c)(6), P-026-0026 and P-026-0027]
- vii. During a loss of boiler water level control or a loss of combustion air control malfunction period, a diluent cap of 14 percent for oxygen or 5 percent for carbon dioxide may be used in the emissions calculations for sulfur dioxide and nitrogen dioxide. [RCSA §22a-174-38(j)(3)]
- viii. Annual emissions shall be calculated by adding the current month's emissions to the previous 11 months' emissions. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. Each record shall be labeled with the calendar date on which it was generated. CEMS output shall be recorded as follows: [RCSA §§22a-174-38(k)(1), (3), (4), P-026-0026 and P-026-0027]
 - A. All 6-minute block average opacity levels;
 - B. One-hour averages for SO_x emission concentrations and SO_x reduction efficiency levels;
 - C. All 24-hour daily geometric average SO_x emission concentrations and all 24-hour daily geometric average percent reductions in SO_x emissions;
 - D. One-hour averages and 24-hour daily arithmetic averages of NO_x emission concentrations;
 - E. One-hour averages for CO emission concentrations; and
 - F. 4-hour block average CO emission concentrations.
- ii. The calendar dates when any of the average emission concentrations, percent reductions, operating parameters or opacity levels are above the applicable limit shall be identified. The reasons for such exceedances, a description of corrective actions taken and a description of the measures taken to prevent future exceedances shall also be recorded. [RCSA §22a-174-38(k)(5)]
- iii. The calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38(k) have not been obtained shall be identified, reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future loss of data. [RCSA §22a-174-38(k)(6)]
- iv. The times when SO_x or NO_x emissions or operational data have been excluded from the calculation of average emission rates or parameters and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]
- v. Daily calibrations and quarterly accuracy determinations for opacity, SO_x, NO_x, CO and O₂ or CO₂ CEMS shall be kept. [RCSA §22a-174-38(k)(8)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.2.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)]
- ii. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which data were collected. The report shall include the following:
 - A. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter [RCSA §22a-174-38(1)(2)(A)];
 - B. A list of the highest emission level recorded for SO_x, NO_x and CO based on the data recorded for 24-hour daily geometric averages, 24-hour daily arithmetic averages, 4-hour block averages or 4-hour block arithmetic averages, as applicable, for the aforementioned pollutants [RCSA §22a-174-38(1)(3)(A)(ii)];
 - C. The highest 6-minute average opacity level measured [RCSA §22a-174-38(1)(3)(A)(iii)];
 - D. The total number of days that the minimum number of hours of data for SO_x, NO_x and CO emissions were not obtained [RCSA §22a-174-38(1)(3)(A)(v)];
 - E. The total number of hours that data for SO_x, NO_x and CO were excluded from the calculation of average emission concentration [RCSA §22a-174-38(1)(3)(A)(vi)];
 - F. The information required by Section III.A.2.d.iii.A, B, C, D and E for the previous calendar year [RCSA §22a-174-38(1)(3)(B)]; and
 - G. The data summaries required by Section III.A.2.d.iii.A, B, C, D, E and F shall highlight any emission levels that did not achieve the emission limits specified in this Title V permit. [RCSA §22a-174-38(1)(3)(C)]

3. VOC

a. Limitations or Restrictions [P-026-0026, P-026-0027]

- i. ≤ 70 ppmvd @ 12% CO₂
- ii. 5.3 lb/h¹
- iii. 23.1 tpy

b. Monitoring and Testing Requirements

- i. The Permittee shall conduct a performance test for VOC, if requested by the commissioner, using a sampling method approved by the commissioner. [RCSA §22a-174-33(j)(1)(K)(ii)]

¹ Based on 29900 dscfm (68 °F) and the corresponding pollutant concentration, except for VOC, which is based on 30231 dscfm @ 12 % CO₂. These flow rates are the average values from the dioxin and metals stack tests of this unit from 1996-2000. These values are considered representative of actual operation, subject to change during the course of normal operation.

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall calculate annual emissions adding the current month's emissions to the previous 11 months' emissions. The Permittee shall make these calculations within 30 days of the end of the previous month. Emissions calculations shall utilize an emission factor derived from the above referenced performance test, if available, or a site based emission factor.
[RCSA §22a-174-38(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall make and keep records of all calculations and performance tests conducted to determine compliance with the VOC emission limits. [RCSA §22a-174-33(o)(2)]

d. Reporting Requirements

The Permittee shall submit reports to the commissioner of all performance tests for VOC from the affected facility, if requested by the commissioner. Such reports shall be submitted when available with the other required performance test reports. [RCSA §22a-174-4(d)]

4. NH₃, H₂SO₄, Fluorides and PAH

a. Limitations or Restrictions

- i. NH₃ [P-026-0026, P-026-0027]
≤ 20 ppmvd @ 7% O₂
- ii. H₂SO₄ [P-026-0026, P-026-0027]
≤ 0.02 lb/MMBtu heat input of MSW
- iii. Fluorides [P-026-0026, P-026-0027, RCSA §22a-174-29]
Calculated MASC limit
- iv. PAH [P-026-0026, P-026-0027, RCSA §22a-174-29]
Calculated MASC limit

b. Monitoring and Testing Requirements

- i. The Permittee shall conduct periodic performance testing once every five years.
[P-026-0026 and P-026-0027]
- ii. The tested emission concentrations shall not exceed the more stringent of the limits in Section III.A.4.a of this Title V permit or the MASC for the pollutant in question. [P-026-0026 and P-026-0027]

c. Record Keeping Requirements

The Permittee shall make and keep the performance test results specified in III.A.4.b of this Title V permit.
[RCSA §22a-174-33(o)(2)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.4.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)]

5. Particulate Control Inlet Temperature and MWC Unit Load (Steam Rate)

a. Limitations or Restrictions

[P-026-0026, P-026-0027, RCSA §22a-174-38]

i. Particulate Control Inlet Temperature

≤ 17 °C above the maximum demonstrated particulate control device inlet temperature measured during the most recent compliant dioxin/furan emission test.

ii. MWC Unit Load (Steam Rate): ≤ 83,000 lb/h of steam or ≤ 110% of maximum load measured during the most recent compliant dioxin/furan emission test, whichever is lower.

iii. The Permittee may, notwithstanding the limitations of Sections A.5.a.i and ii of this Title V permit, during the annual dioxin/furan emissions performance test and for two weeks prior to such test, allow temperatures in excess of that specified in Sections A.5.a.i and ii of this Title V permit and MWC unit load limits in excess of that specified in Sections A.5.a.i and ii of this Title V permit. However, should the Permittee operate the unit at such excess temperatures and load, the Permittee shall not again be allowed to operate at such excess temperatures and load during that test period without the approval of the commissioner should the annual dioxin/furan emission performance test be postponed. [RCSA §22a-174-38(g)(3)]

b. Monitoring and Testing Requirements

i. The Permittee shall install and use equipment to monitor and record the inlet temperature for each baghouse. [P-026-0026, P-026-0027]

ii. The Permittee shall install and use a steam flow meter to monitor and record MWC unit load. [P-026-0026, P-026-0027]

iii. The Permittee shall not cause or allow an MWC unit to operate at a temperature, measured at each particulate control device inlet, more than 17 degrees centigrade, based on a 4-hour arithmetic average, above the maximum demonstrated particulate control device inlet temperature measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. [RCSA §22a-174-38(g)(1)]

iv. The Permittee shall not cause or allow an MWC unit to operate at an MWC load greater than 110 percent of the maximum demonstrated 4-hour average MWC load, based on a 4-hour arithmetic average, measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. MWC unit load shall be measured by a steam flow meter. [P-026-0026, P-026-0027, RCSA §22a-174-38(g)(2)]

c. Record Keeping Requirements

i. The Permittee shall make and keep a record of the calendar dates when any of the average emission

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concentrations, percent reductions, operating parameters or opacity levels are above the applicable limit shall be identified. The reasons for such exceedances, a description of corrective actions taken and a description of the measures taken to prevent future exceedances shall also be recorded.

[RCSA §22a-174-38(k)(5)]

- ii. The Permittee shall make and keep a record of the calendar dates for which the minimum number of hours of any of the data required by this section have not been obtained shall be identified, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]
- iii. Where sulfur dioxide emissions data, nitrogen oxides emissions data or operational data (i.e., carbon monoxide emissions, MWC unit load and particulate matter control device temperature) have been excluded from the calculation of average emission concentrations or parameters, the Permittee shall identify such exclusion as well as the reason(s) for excluding the data. [RCSA §22a-174-38(k)(7)]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.5.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)]
- ii. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which data were collected. The report shall include the following:
 - A. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter [RCSA §22a-174-38(1)(2)(A)]; and
 - B. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action taken. [RCSA §22a-174-38(1)(2)(A)]
- iii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the following:
 - A. A list of the highest emission level recorded for MWC unit load and particulate matter control device inlet temperature based on the data recorded for 24-hour daily geometric averages, 24-hour daily arithmetic averages, 4-hour block averages or 4-hour block arithmetic averages, as applicable, for the aforementioned pollutants [RCSA §22a-174-38(1)(3)(A)(ii)];
 - B. The total number of days that the minimum number of hours of data for MWC unit load and particulate matter control device temperature data were not obtained [RCSA §22a-174-38(1)(3)(A)(v)];
 - C. The total number of hours that data for MWC unit load, and particulate matter control device temperature were excluded from the calculation of average emission concentrations or parameters [RCSA §22a-174-38(1)(3)(A)(vi)];
 - D. The information required by Section III.A.5.d.iii.A, B, and C of this Title V permit for the previous calendar year [RCSA §22a-174-38(1)(3)(B)]; and

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- E. The data summaries required by Section III.A.5.d.iii.A, B, C, and D of this Title V permit shall highlight any emission levels that did not achieve the emission limits specified in this Title V permit. [RCSA §22a-174-38(1)(3)(C)]

6. Operator Training & Certification and Operating & Maintenance Manual

a. Requirements and Record Keeping

- i. The Permittee shall not cause or allow the MWC plant to be operated at any time unless a certified chief operator or shift operator is physically present at the plant. [RCSA §22a-174-38(h)(1)]
- ii. Operators shall be certified by the commissioner under RCSA §22a-231-1 and shall be identified as either a Class I or Class II chief operator or a Class I or Class II shift operator. [RCSA §22a-174-38(h)(2)]
- iii. Not later than six months after the date of employment, all chief operators and shift operators must satisfactorily complete an operator training course conducted by the commissioner. [RCSA §22a-174-38(h)(3)]
- iv. The Permittee of a municipal waste combustor shall have a site-specific Municipal Waste Combustor Operating & Maintenance Manual with an index. Such Municipal Waste Combustor Operating & Maintenance Manual shall be updated on an annual basis. The Municipal Waste Combustor Operating & Maintenance Manual shall include: [RCSA §22a-174-38(h)(4)]
 - A. A summary of the applicable emission limits and operational requirements;
 - B. A description of basic combustion theory applicable to a MWC unit;
 - C. Procedures for receiving, handling, and feeding municipal solid waste;
 - D. Procedures for startup, shutdown and malfunction;
 - E. Procedures for maintaining proper combustion air supply levels;
 - F. Procedures for operating the combustor within the standards established under this section;
 - G. Procedures for responding to periodic upset or off specification conditions;
 - H. Procedures for minimizing particulate matter carryover;
 - I. Procedures for handling ash;
 - J. Procedures for monitoring emissions; and
 - K. Procedures for reporting and record keeping.
- v. The Permittee shall establish a training program to review the Municipal Waste Combustor Operating & Maintenance Manual with each person who has responsibilities affecting the operation of the MWC including, but not limited to, the chief operator, shift operator, ash handler, maintenance employee and crane/load handler. The Permittee shall train new employees with the job positions identified in this

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subdivision prior to each new employee's assumption of any responsibilities at the MWC plant. Following initial training, the training program shall be repeated on an annual basis for each person identified in this subdivision. [RCSA §22a-174-38(h)(5)]

- vi. The Operating & Maintenance Manual shall be kept in a location readily accessible to all persons identified in Section III.A.6.a.v of this Title V permit above and shall be available for inspection by the commissioner or Administrator upon request. [RCSA §22a-174-38(h)(6)]
- vii. Operator training and certification records shall be maintained on an annual basis, as follows: [RCSA §22a-174-38(k)(2)]
 - A. The names of the chief operators and shift operators, certified by the commissioner, and employed at the plant, including the dates of initial and renewal certifications and documentation of current certification;
 - B. The names of the chief operators and shift operators who have completed an operator training course as required under Section III.A.6.a.iii of this Title V permit; and
 - C. The names of the persons at the plant who have completed a training program as required under Section III.A.6.a.v of this Title V permit.

7. Carbon Feed Rate

a. Limitations or Restrictions

Primary indicators of carbon mass feed rate shall equal or exceed levels measured during the most recent compliant dioxin/furan emission test. [P-026-0026, P-026-0027, RCSA §22a-174-38]

b. Monitoring and Testing Requirements

- i. The Permittee shall monitor the primary indicator(s) of the carbon mass feed rate for the carbon injection system. [P-026-0026 and P-026-0027]
- ii. During the operation of a MWC unit, the carbon injection system operating parameter(s) that is the primary indicator(s) of the carbon mass feed rate (e.g., screw feeder setting) shall be averaged over an 8-hour block average and the 8-hour block average shall equal or exceed the level(s) documented during the performance tests specified in RCSA §22a-174-38(i). [RCSA §22a-174-38(g)(5)]

c. Record Keeping Requirements

- i. For MWCs equipped with activated carbon injection systems for mercury or dioxin/furan emissions control, the records specified in this subdivision shall be maintained [RCSA §22a-174-38(k)(11)]:
 - A. Estimates of the average carbon mass feed rate, measured in kilograms per hour or pounds per hour, during the initial mercury performance test and all subsequent annual performance tests, with supporting calculations;
 - B. Estimates of the average carbon mass feed rate, measured in kilograms per hour or pounds per hour, during the initial dioxin/furan emissions performance test and all subsequent annual performance tests, with supporting calculations;

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- C. Estimates of the average carbon mass feed rate, measured in kilograms per hour or pounds per hour, for each hour of operation, with supporting calculations;
- D. For each calendar quarter, estimates of the total carbon usage for each MWC unit in kilograms or pounds for each calendar quarter by two independent methods, according to the procedures specified below;
 - 1. For each MWC unit, estimate the weight of carbon delivered, and
 - 2. For each MWC unit, estimate the average carbon mass feed rate in kilograms per hour or pounds per hour for each hour of operation based on the parameters specified under RCSA §22a-174-38(i)(4)(K), and sum the results for the total number of hours of operation during the calendar quarter;
- E. Carbon injection system operating parameter data for the parameter(s) that are the primary indicator(s) of carbon feed rate (e.g., screw feeder speed); and
- F. The calendar dates when average carbon mass feed rates were less than either of the hourly carbon feed rates estimated during mercury or dioxin/furan emissions tests. The reasons for such feed rates and a description of corrective actions taken shall also be recorded.

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.7.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)]
- ii. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which data were collected. The report shall include the following:
 - A. Identification of the calendar dates when average carbon mass feed rates were less than either of the hourly carbon feed rates estimated during mercury or dioxin/furan emissions tests, and the rates recorded. The reasons for such feed rates and a description of the corrective actions taken shall also be reported. [RCSA §22a-174-38(1)(2)(C)]

8. Overfire and Underfire Air

a. Monitoring and Testing Requirements

The Permittee shall install and use equipment to monitor total overfire and underfire air for each MWC. [P-026-0026 and P-026-0027]

b. Record Keeping Requirements

The Permittee shall make and keep records of data for total overfire and underfire air for each MWC. [RCSA §22a-174-33(o)(2)]

c. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.8.b of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as

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the commissioner may require. [RCSA §22a-174-4(d)]

9. SDS Parameters

a. Monitoring and Testing Requirements

The Permittee shall install and use equipment to monitor SDS reagent application pressures and flow rates. [P-026-0026 and P-026-0027]

b. Record Keeping Requirements

The Permittee shall make and keep records of data for SDS reagent application pressures and flow rates for each MWC. [RCSA §22a-174-33(o)(2)]

c. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.9.b of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)]
- ii. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which data were collected. The report shall include the following:
 - A. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter [RCSA §22a-174-38(1)(2)(A)];
 - B. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action taken [RCSA §22a-174-38(1)(2)(B)]; and
 - C. The data and results of any CEMS quality assurance testing conducted pursuant to RCSA §22a-174-38. [RCSA §22a-174-38(1)(2)(D)]

10. 40 CFR Part 61 Subpart C, Beryllium NESHAP

The Permittee shall comply with the requirements of 40 CFR Part 61 Subpart C if MSW consisting, in part, of Be containing waste is burned in either EU 1 or EU 2. [40 CFR Part 61 Subpart C, P-026-0026 and P-026-0027]

B. EMISSIONS UNIT 3, CLARKE MURPHY MD6 DIESEL FIRE PUMP (Subject to RCSA §§22a-174-3b, -22 and 40 CFR Part 63 Subpart ZZZZ)

1. NO_x RACT [RCSA §22a-174-22]

a. Record Keeping Requirements

- i. The Permittee of a stationary source subject to RCSA §22a-174-22 shall keep the following records:
 - A. Daily records of operating hours, identifying the operating hours of emergency and non-

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emergency use;

B. Records of all tune-ups, repairs, replacement of parts and other maintenance; and

C. Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22.

2. 40 CFR Part 63 Subpart ZZZZ (Emergency compression ignition engine, <500 hp, constructed prior to 2006

a. Monitoring and General Requirements

- i. The Permittee shall operate and maintain EU 3 in accordance with the manufacturer's recommendations. [40 CFR §63.6625(e)]
- ii. The Permittee shall utilize a non-resettable hour meter. [40 CFR §63.6625(f)]
- iii. The Permittee shall minimize the time spent at idle during startup and minimize the startup time to a period no to exceed 30 minutes. [40 CFR §63.6625(h)]
- iv. The Permittee shall operate the engine for maintenance checks and readiness testing less than 100 hours per calendar year. [40 CFR §63.6640(f)]
- v. The Permittee shall change oil and filter, inspect all hoses and belts every 500 hours of operation or annually whichever comes first. [40 CFR Part 63 Subpart ZZZZ Table 2c]
- vi. The Permittee shall inspect the air cleaner every 1000 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ Table 2c]

b. Record Keeping

The Permittee shall record the hours of operation for emergency and non-emergency use. [40 CFR §63.6655(f)]

c. Reporting Requirements

If EU 3 is operating during an emergency and it is not possible to shut down the engine to meet the requirements of Section III.B.2.a.v and vi, the maintenance should be performed as soon as practicable after the emergency has ended and the Permittee shall report any failure to perform the maintenance on schedule to the Administrator. [40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]

3. Fuel Sulfur Content

a. Limitation or Restriction

Any nongaseous fuel consumed by the subject emergency engine shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined as in RCSA §22a-174-42. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring and Testing Requirements

The Permittee shall demonstrate compliance with fuel sulfur content using any of the following

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[RCSA §22a-174-3b(h)]:

- i. A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
- ii. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
- iii. A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

c. Record Keeping Requirements

The Permittee shall maintain records of the information necessary for the commissioner to determine compliance with the limitation of fuel sulfur content. [RCSA §22a-174-3b(e)(3)]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.B.3.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

4. Operational Conditions

a. Limitation or Restriction

The Permittee shall not operate any emergency engine for more than 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]

b. Monitoring and Testing Requirements

The Permittee shall monitor the hours of operation of each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall make and maintain records of the hours of operation of each engine for each month and each 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.B.4.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

C. EMISSIONS UNIT 4, ASH HANDLING SYSTEM (Subject to RCSA §22a-174-38)

1. Fugitive Ash Emissions

a. Limitation or Restriction

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- i. The Permittee shall not cause to be discharged to the atmosphere visible emissions of combustion ash from an ash conveying system, including conveyor points, in excess of five percent (5%) of the observation period (i.e. nine minutes per three-hour period). [RCSA §22a-174-38(f)(1)]
- ii. The above emission limit does not cover visible emissions discharged into the atmosphere from buildings and enclosures of ash conveying systems. [RCSA §22a-174-38(f)(2)]
- iii. The provisions specified in RCSA §22a-174-38(f)(1) do not apply during maintenance and repair of ash conveying systems, however, all reasonable measures to control fugitive emissions on such occasions shall be implemented. [RCSA §22a-174-38(f)(3)]

b. Monitoring Requirements

- i. The Permittee shall conduct an annual performance test for fugitive ash emissions for each MWC at least once per calendar year. [RCSA §22a-174-38(i)(2)]
- ii. The Permittee shall conduct the performance test in accordance with RCSA §22a-174-38(i)(4)(I).

c. Record Keeping Requirements

The Permittee shall make and keep records of the test reports and supporting calculations of all annual performance tests conducted to determine compliance with the emission limit for fugitive ash. [RCSA §22a-174-38(k)(10)]

d. Reporting Requirements

- i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which data were collected. Each annual report shall include the fugitive ash emission levels achieved during annual performance tests. [RCSA §22a-174-38(l)(3)(A)(I)]
- ii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)]

D. PREMISES-WIDE GENERAL REQUIREMENTS

- 1. Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
- 2. Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
- 3. Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
- 4. Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.

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5. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
6. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
7. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
8. **Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
9. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
10. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
11. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
12. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18. (Section 18 approved by EPA on 9-23-1982, current Regulation submitted to EPA on 12-1-2004.)
13. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
14. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
15. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.
16. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
17. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).

Section IV: Compliance Schedule

TABLE IV: COMPLIANCE SCHEDULE				
Emissions Unit	Applicable Regulations	Steps Required for Achieving Compliance (Milestones)	Date by which Each Step is to be Completed	Dates for Monitoring, Record Keeping, and Reporting
		No Steps are required for achieving compliance at this time		

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Energy and Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

SECTION V: STATE ENFORCEABLE TERMS AND CONDITIONS

- A.** This Title V permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Energy and Environmental Protection or any federal, local or other state agency. Nothing in this Title V permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- B.** Nothing in this Title V permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the commissioner.
- C.** Additional Emissions Units
1. The Permittee shall make and submit a written record, at the commissioner's request, within 30 days of receipt of notice from the commissioner, or by such other date specified by the commissioner, of each additional emissions unit or group of similar or identical emissions units at the premises.
 2. Such record of additional emissions units shall include each emissions unit, or group of emissions units, at the premises which is not listed in Section II.A of this Title V permit, unless the emissions unit, or group of emissions units, is:
 - a. an insignificant emissions unit as defined in RCSA §22a-174-33; or
 - b. an emissions unit or activity listed in *White Paper for Streamlined Development of Part 70 Permit Applications, Attachment A* (EPA guidance memorandum dated July 10, 1995).
 3. For each emissions unit, or group of emissions units, on such record, the record shall include, as available:
 - a. Description, including make and model;
 - b. Year of construction/installation or if a group, range of years of construction/installation;
 - c. Maximum throughput or capacity; and
 - d. Fuel type, if applicable.
- D.** Odors: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor that constitutes a nuisance beyond the property boundary of the premises as set forth in RCSA §22a-174-23.
- E.** Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.

Section V: State Enforceable Terms and Conditions

- F.** Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.
- G.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- H.** Fuel Sulfur Content
 - 1. For the period beginning July 1, 2014 and ending June 30, 2018, the Permittee shall not use No. 2 heating oil that exceeds five hundred parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(A); and
 - 2. On or after July 1, 2018, the Permittee shall not use No. 2 heating oil that exceeds five hundred parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B) .

Section VI: Title V Requirements

The Administrator of the United States Environmental Protection Agency and the Commissioner of the Department of Energy and Environmental Protection have the authority to enforce the terms and conditions contained in this section.

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the commissioner of any document required by this Title V permit shall be the date such document is received by the commissioner. The date of any notice by the commissioner under this Title V permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the commissioner, whichever is earlier. Except as otherwise specified in this Title V permit, the word "day" means calendar day. Any document or action which is required by this Title V permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the commissioner under this Title V permit shall, unless otherwise specified in writing by the commissioner, be directed to: Office of the Director; Engineering & Enforcement Division; Bureau of Air Management; Department of Energy and Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the Environmental Protection Agency shall be in a computer-readable format and addressed to: U.S. EPA New England, 5 Post Office Square, Suite 100 (OES04-2), Boston, Massachusetts 02109, Attn: Air Clerk.

B. CERTIFICATIONS [RCSA §22a-174-33(b)]

In accordance with RCSA §22a-174-33(b), any report or other document required by this Title V permit and any other information submitted to the commissioner or Administrator shall be signed by an individual described in RCSA §22a-174-2a(a), or by a duly authorized representative of such individual. Any individual signing any document pursuant to RCSA §22a-174-33(b) shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in RCSA §22a-174-2a(a)(4):

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute.”

C. SIGNATORY RESPONSIBILITY [RCSA §22a-174-2a(a)]

For purposes of signing any Title V-related application, document, report or certification required by RCSA §22a-174-33, any corporation's duly authorized representative may be either a named individual or any individual occupying a named position. Such named individual or individual occupying a named position is a duly authorized representative if such individual is responsible for the overall operation of one or more manufacturing, production or operating facilities subject to RCSA §22a-174-33 and either:

Section VI: Title V Requirements

1. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding 25 million dollars in second quarter 1980 dollars; or
2. The delegation of authority to the duly authorized representative has been given in writing by an officer of the corporation in accordance with corporate procedures and the following:
 - i. Such written authorization specifically authorizes a named individual, or a named position, having responsibility for the overall operation of the Title V premises or activity,
 - ii. Such written authorization is submitted to the commissioner and has been approved by the commissioner in advance of such delegation. Such approval does not constitute approval of corporate procedures, and
 - iii. If a duly authorized representative is a named individual in an authorization submitted under subclause ii. of this subparagraph and a different individual is assigned or has assumed the responsibilities of the duly authorized representative, or, if a duly authorized representative is a named position in an authorization submitted under subclause ii. of this subparagraph and a different named position is assigned or has assumed the duties of the duly authorized representative, a new written authorization shall be submitted to the commissioner prior to or together with the submission of any application, document, report or certification signed by such representative.

D. ADDITIONAL INFORMATION [RCSA §22a-174-33(j)(1)(X), RCSA §22a-174-33(h)(2)]

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending this Title V permit or to determine compliance with this Title V permit.

In addition, the Permittee shall submit information to address any requirements that become applicable to the subject source and shall submit correct, complete, and sufficient information within 15 days of the applicant's becoming aware of any incorrect, incomplete, or insufficient submittal, during the pendency of the application, or any time thereafter, with an explanation for such deficiency and a certification pursuant to RCSA §22a-174-2a(a)(5).

E. MONITORING REPORTS [RCSA §22a-174-33(o)(1)]

A Permittee, required to perform monitoring pursuant this Title V permit, shall submit to the commissioner, on forms prescribed by the commissioner, written monitoring reports on March 1 and September 1 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this Title V permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

Section VI: Title V Requirements

F. PREMISES RECORDS [RCSA §22a-174-33(o)(2)]

Unless otherwise required by this Title V permit, the Permittee shall make and keep records of all required monitoring data and supporting information for at least five years from the date such data and information were obtained. The Permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;
5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;
7. The results of such analyses;
8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA §22a-174-33(q)(1)]

The Permittee shall, on March 1 and September 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a progress report on forms prescribed by the commissioner, and certified in accordance with RCSA §22a-174-2a(a)(5). Such report shall describe the Permittee's progress in achieving compliance under the compliance plan schedule contained in this Title V permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the Permittee expects to meet them.

Any progress report prepared and submitted pursuant to RCSA §22a-174-33(q)(1) shall be simultaneously submitted by the Permittee to the Administrator.

Section VI: Title V Requirements

H. COMPLIANCE CERTIFICATIONS [RCSA §22a-174-33(q)(2)]

The Permittee shall, on March 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a written compliance certification certified in accordance with RCSA §22a-174-2a(a)(5) and which includes the information identified in 40 CFR §§70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to RCSA §22a-174-33(q)(2) shall be simultaneously submitted by the Permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA §22a-174-33(p)]

Notwithstanding Section VI.D of this Title V permit, the Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than 24 hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten days after such deviation commenced.

J. PERMIT RENEWAL [RCSA §22a-174-33(j)(1)(B)]

All of the terms and conditions of this Title V permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with RCSA §§22a-174-33(g), -33(h), and -33(i).

K. OPERATE IN COMPLIANCE [RCSA §22a-174-33(j)(1)(C)]

The Permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this Title V permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA §22a-174-33(j)(1)(G)]

This Title V permit shall not be deemed to:

1. Preclude the creation or use of emission reduction credits or allowances or the trading thereof in accordance with RCSA §§22a-174-33(j)(1)(I) and -33(j)(1)(P), provided that the commissioner's prior written approval of the creation, use, or trading is obtained;
2. Authorize emissions of an air pollutant so as to exceed levels prohibited pursuant to 40 CFR Part 72;
3. Authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. Impose limits on emissions from items or activities specified in RCSA §§22a-174-33(g)(3)(A) and -33(g)(3)(B) unless imposition of such limits is required by an applicable requirement.

Section VI: Title V Requirements

M. INSPECTION TO DETERMINE COMPLIANCE [RCSA §22a-174-33(j)(1)(M)]

The commissioner may, for the purpose of determining compliance with this Title V permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under such permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this Title V permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

The Permittee shall have available at the facility at all times a copy of this Title V permit.

O. SEVERABILITY CLAUSE [RCSA §22a-174-33(j)(1)(R)]

The provisions of this Title V permit are severable. If any provision of this Title V permit or the application of any provision of this Title V permit to any circumstance is held invalid, the remainder of this Title V permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA §22a-174-33(j)(1)(T)]

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Title V permit.

Q. PERMIT REQUIREMENTS [RCSA §22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the Permittee's obligation to comply with this Title V permit.

R. PROPERTY RIGHTS [RCSA §22a-174-33(j)(1)(W)]

This Title V permit does not convey any property rights or any exclusive privileges. This Title V permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including CGS §4-181a(b) and RCSA §22a-3a-5(b). This Title V permit shall neither create nor affect any rights of persons who are not parties to this Title V permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA §22a-174-33(o)(3)]

The Permittee shall, contemporaneously with making a change authorized by this Title V permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

Section VI: Title V Requirements

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA §22a-174-33(r)(2)]

The Permittee may engage in any action allowed by the Administrator in accordance with 40 CFR §§70.4(b)(12)(i) to (iii)(B), inclusive, and 40 CFR §§70.4(b)(14)(i) to (iv), inclusive, without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. Constitute a modification under 40 CFR Part 60, 61 or 63;
2. Exceed emissions allowable under the subject permit;
3. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40 CFR Parts 72 to 78, inclusive; or
4. Constitute a non-minor permit modification pursuant to RCSA §22a-174-2a(d)(4).

At least seven days before initiating an action specified in RCSA §22a-174-33(r)(2)(A), the Permittee shall notify the Administrator and the commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA §22a-174-33(r)(2)(A)]

Written notification required under RCSA §22a-174-33(r)(2)(A) shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The Permittee shall thereafter maintain a copy of such notice with the Title V permit. The commissioner and the Permittee shall each attach a copy of such notice to their copy of the Title V permit.

V. TRANSFERS [RCSA §22a-174-2a(g)]

No person other than the Permittee shall act or refrain from acting under the authority of this Title V permit unless such permit has been transferred to another person in accordance with RCSA §22a-174-2a(g).

The proposed transferor and transferee of a permit shall submit to the commissioner a request for a permit transfer on a form provided by the commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS §22a-6m.

W. REVOCATION [RCSA §22a-174-2a(h)]

The commissioner may revoke this Title V permit on his own initiative or on the request of the Permittee or any other person, in accordance with CGS §4-182(c), RCSA §22a-3a-5(d), and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The Permittee requesting revocation of this Title V permit shall state the requested date of revocation and provide evidence satisfactory to the commissioner that the subject source is no longer a Title V source.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this Title V permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this Title V permit if the Administrator has determined that the commissioner failed to act in a timely manner on a permit renewal application.

Section VI: Title V Requirements

This Title V permit may be modified, revoked, reopened, reissued, or suspended by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(r), CGS §22a-174c, or RCSA §22a-3a-5(d).

X. REOPENING FOR CAUSE [RCSA §22a-174-33(s)]

This Title V permit may be reopened by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(s).

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this Title V permit, for the purpose of determining compliance or establishing whether a Permittee has violated or is in violation of any permit condition, nothing in this Title V permit shall preclude the use, including the exclusive use, of any credible evidence or information.

Print for Compliance Certification or Enforcement

Click the button below to generate the appropriate checklist. Be aware that this macro does not work unless you have access to the DEEP D-Drive.

This macro takes anywhere from 2-5 minutes to run. Your computer will look like it is locked up but it is working. Unfortunately the new DEEP virtual computer system makes this process even slower. Please be patient.

Print Enforcement Checklist

Print Compliance Certification