C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.

50 Century Hill Drive, Latham, NY 12110
518.786.7400 FAX 518.786.7299 www.ctmale.com

May 28, 2024 ***Via Email***

Ms. Beth Magee
Deputy Regional Permit Administrator
New York State Department of Environmental Conservation Region 5
232 Golf Course Road
Warrensburg, New York 12885-1172

Re: Wheelabrator Hudson Falls
Title V Permit Renewal - NYSDEC Permit ID 5-5344-00001/00016
C.T. Male Project No. 19.9051

Dear Ms. Magee:

C.T. Male Associates Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C. (C.T. Male) is submitting this application on behalf of Wheelabrator Hudson Falls LLC (Wheelabrator). This document and attachments are being submitted relative to the Title V Permit renewal for the Wheelabrator Hudson Falls facility, NYSDEC Permit ID 5-5344-00001. The facility's Title V Facility permit will expire on November 26, 2024, and this renewal application is being submitted 180-days prior to the permit expiration date, as required for Title V facilities.

As previously discussed with Department staff, the facility has previously submitted 6 NYCRR Part 219-10, Reasonably Available Control Technology (RACT) for Oxides of Nitrogen (NOx) at Municipal and Private Solid Waste Incineration Units documentation, which will be incorporated into the permit renewal. As such, additional information with respect to this regulatory requirement has not been included within this application package.

With respect to the Air Title V Permit, Wheelabrator is not seeking to modify any other enforceable conditions within the permit. All other facility operations will remain consistent with the currently permitted and exempt activities.

Emission calculations associated with facility operations are included in Attachment A, the Title V Permit Renewal Forms are included in Attachment B, the form titled "List of Exempt Activities" is included in Attachment C, and the form titled "Methods Used to Determine Compliance" is included in Attachment D.

Should you have any questions or require additional information, please feel free to contact this office at (518) 786-7400 or Bob Brynes of Wheelabrator at (518) 747-2390 at your convenience.

Sincerely,
C.T. MALE ASSOCIATES

Joseph A. Farron, Jr.
Project Environmental Engineer

Reviewed and approved by:

Jeffrey A. Marx, P.E.
Managing Environmental Engineer

Attachments

c: Bob Brynes, Tim Porter (Wheelabrator)
Timothy Abrams (NYSDEC Region 5)

Attachment A

Emission Calculations

Attachment A.1

2023 Greenhouse Gas Emissions Summary from Combustion Activities

EMISSIONS OF GREENHOUSE GAS EMISSIONS FROM COMBUSTION

Annual Emissions Data Taken From 2023 e-GGRT Report

1. Emission Information in Metric Tons

Contaminant Name	From Natural Gas Combustion	Unit 1 MSW Combustion	Unit 2 MSW Combustion	Total
Total CO2	6,010.9	59,321.3	60,640.8	125,973
Total Methane	0.11	20.93	21.39	42.43
Total Nitrous Oxide	0.011	2.747	2.808	5.57
Methane (CO2e)	2.8	523.2	534.9	1,061
Nitrous Oxide (CO2e)	3.4	818.6	836.8	1,659
Total CO2equivalents	6,017.1	60,663.1	62,012.5	128,693

2. Emission Information in Tons

Contaminant Name	From Natural Gas	Unit 1 MSW	Unit 2 MSW	Total
Total CO2	6,625.9	65,390.5	66,845.0	138,861
Total Methane	0.12	23.07	23.58	46.77
Total Nitrous Oxide	0.012	3.03	3.10	6.14
Methane (CO2e)	3.09	576.73	589.63	1,169
Nitrous Oxide (CO2e)	3.75	902.35	922.41	1,829
Total CO2equivalents	6,632.7	66,869.5	68,357.0	141,859

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name:WHEELABRATOR HUDSON FALLS LLC
Facility Identifier:527532
Facility Reporting Year:2023
Facility Location:
Address: 93 RIVER STREET
City: HUDSON FALLS
State: NY
Postal Code: 12839

Facility Site Details:

CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):64,213.4
CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):0
Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):64,479
Cogeneration Unit Emissions Indicator:N
GHG Report Start Date:2023-01-01
GHG Report End Date:2023-12-31
Description of Changes to Calculation Methodology:
Plant Code Indicator:N
Primary NAICS Code:562213
Second Primary NAICS Code:

Parent Company Details:

Parent Company Name:WHEELABRATOR TECHNOLOGIES HOLDINGS INC
Address:90 Arboretum Drive, Suite 310, Portsmouth, NH 03801
Percent Ownership Interest:100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Carbon Dioxide
Gas Quantity	61,494 (Metric Tons)
Own Result?	

Gas Name	Biogenic Carbon dioxide
Gas Quantity	64,479 (Metric Tons)
Own Result?	

Gas Name	Methane
Gas Quantity	42.43 (Metric Tons)
Own Result?	

Gas Name	Nitrous Oxide
Gas Quantity	5.566 (Metric Tons)
Own Result?	

Unit Details:

Unit Name : CP-1
Unit Description :

Common Pipe Details:
Use Ivt Indicator: Y
Maximum Rated Heat Input Capacity: 52
Cumulative Maximum Rated Heat Input Capacity: 52

Emission Details:
Annual Biogenic CO2 Emissions: 0 (metric tons)
Annual Fossil fuel based CO2 Emissions: 6010.9 (metric tons)

Tier Fuel Details:
Fuel : Natural Gas (Weighted U.S. Average)
Tier Name : Tier 2 (Equation C-2a)
Tier Methodology Start Date : 2023-01-01
Tier Methodology End Date : 2023-12-31
Frequency of HHV determinations : Other (specify)
Other specified frequency of HHV determinations : Factor

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
6010.9 (Metric Tons)	0.11 (Metric Tons)	0.011 (Metric Tons)	2.8 (Metric Tons)	3.4 (Metric Tons)

Unit Name : Unit 1
Unit Type : MWC (Municipal waste combustor)
Unit Description :

Individual Unit Details:

Use Ivt Indicator: Y
Maximum Rated Heat Input Capacity: 103.33 (mmBtu/hr)

Emission Details:

Annual CO_2 mass emissions from sorbent: 0 (Metric Tons)
Annual Biogenic CO2 Emissions: 31885 (metric tons)

Sample Analysis Results for MSW

First Quarter	Second Quarter	Third Quarter	Fourth Quarter
0.51 (decimal fraction)	0.55 (decimal fraction)	0.57 (decimal fraction)	0.52 (decimal fraction)

Tier Fuel Details:

Fuel : Municipal Solid Waste
Tier Name : Tier 2 (Equation C-2c, steam generation)
Tier Methodology Start Date : 2023-01-01
Tier Methodology End Date : 2023-12-31

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
59321.3 (Metric Tons)	20.93 (Metric Tons)	2.747 (Metric Tons)	523.2 (Metric Tons)	818.6 (Metric Tons)

Unit Name : Unit 2
Unit Type : MWC (Municipal waste combustor)
Unit Description :

Individual Unit Details:

Use Ivt Indicator: Y
Maximum Rated Heat Input Capacity: 103.33 (mmBtu/hr)

Emission Details:

Annual CO_2 mass emissions from sorbent: 0 (Metric Tons)
Annual Biogenic CO2 Emissions: 32594 (metric tons)

Sample Analysis Results for MSW

First Quarter	Second Quarter	Third Quarter	Fourth Quarter
0.51 (decimal fraction)	0.55 (decimal fraction)	0.57 (decimal fraction)	0.52 (decimal fraction)

Tier Fuel Details:

Fuel : Municipal Solid Waste
Tier Name : Tier 2 (Equation C-2c, steam generation)
Tier Methodology Start Date : 2023-01-01
Tier Methodology End Date : 2023-12-31

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
60640.8 (Metric Tons)	21.39 (Metric Tons)	2.808 (Metric Tons)	534.9 (Metric Tons)	836.8 (Metric Tons)

Attachment A.2

2023 Emissions Summary from Natural Gas and MSW Combustion Activities

Potential to Emit - Natural Gas (Exempt Process E01 Only)

Pollutant	tons/yr
CO	8.85E+00
Lead	5.27E-05
Mercury	2.74E-05
Cadmium	1.16E-04
SO2	6.32E-02
PM-10	8.01E-01
NOX	1.48E+01
Unspeciated VOC	5.80E-01
CO2	1.26E+04

Potential to Emit - MSW

Pollutant	tons/yr
CO	9.62E+01
Lead	3.30E-01
Mercury	4.13E-02
Cadmium	2.89E-02
SO2	6.38E+01
PM-10	2.06E+01
NOX	3.24E+02
Unspeciated VOC	3.94E+01
CO2	1.79E+05
Dioxin	2.89E-05
HCl	3.63E+01
Chromium VI	1.75E-02
PCB	1.87E-03
PAH	7.45E-02

Facility-Wide Potential Emissions

Pollutant	tons/yr	lb/yr
CO	1.05E+02	210,110
Lead	3.30E-01	660.6
Mercury	4.13E-02	82.62
Cadmium	2.90E-02	58.03
SO2	6.39E+01	127,794
PM-10	2.14E+01	42,885
NOX	3.39E+02	677,504
Unspeciated VOC	4.00E+01	79,999
CO2	1.92E+05	383,873,555
Dioxin	2.89E-05	0.058
HCl	3.63E+01	72,657
Chromium VI	1.75E-02	35.04
PCB	1.87E-03	3.73
PAH	7.45E-02	148.9

Actual Emissions - Natural Gas Processes 001, 003, E01

Pollutant	tons/yr
CO	4.25E+00
Lead	2.53E-05
Mercury	1.32E-05
Cadmium	5.57E-05
SO2	3.04E-02
PM-10	3.85E-01
NOX	7.08E+00
Unspeciated VOC	2.78E-01
CO2	6.07E+03

Actual Emissions - MSW

Pollutant	tons/yr
CO	2.80E+01
Lead	4.47E-02
Mercury	2.90E-03
Cadmium	4.91E-03
SO2	1.21E+01
PM-10	2.91E+00
NOX	1.95E+02
Unspeciated VOC	6.25E-01
CO2	1.31E+05
Dioxin	1.97E-06
HCl	2.19E+01
Chromium VI	3.16E-04
PCB	4.33E-06
PAH	1.76E-04

Facility-Wide Actual Emissions

Pollutant	tons/yr	lb/yr
CO	3.22E+01	64,402
Lead	4.47E-02	89.35
Mercury	2.91E-03	5.83
Cadmium	4.96E-03	9.92
SO2	1.21E+01	24,171
PM-10	3.29E+00	6,589
NOX	2.02E+02	403,169
Unspeciated VOC	9.03E-01	1,807
CO2	1.37E+05	274,884,002
Dioxin	1.97E-06	0.0039
HCl	2.19E+01	43,800
Chromium VI	3.16E-04	0.63
PCB	4.33E-06	0.0087
PAH	1.76E-04	0.35

EMISSIONS OF AIR CONTAMINANTS FROM NATURAL GAS COMBUSTION

Natural Gas Usage - 2023 (from 2023 Emission Statement):

Process E01 (Exempt)	14.55	Million Cubic Feet	604.8 Hours in 2023 (4.0 hr/day; 7.0 days/wk; 21.6 wk/yr)
Process 001	39.8	Million Cubic Feet	
Process 003	46.86	Million Cubic Feet	
Total Annual Consumption	101.21	Million Cubic Feet	

Emission Factors:

As per AP-42, Chapter 1.4 for Natural Gas Combustion

Contaminant Name	Natural Gas Emission Factor (lb/Million SCF)	Natural Gas Emission Factor (lb/MMBTU)*
NO_X	140	0.137
Lead	0.0005	4.90E-07
Mercury	0.00026	2.55E-07
Cadmium	0.0011	1.08E-06
SO_2	0.6	0.000588
CO	84	0.0824
PM	7.6	0.00745
VOC	5.5	0.00539
CO_2	120,000	117.65

* - Per AP-42, divide Emission Factor (lb/Million SCF) by 1,020 to obtain Emission Factor (lb/MMBTU).

Actual Annual Natural Gas Combustion-Related Emissions (2023)

Annual Emissions from Natural Gas Combustion (lb/yr) = Annual Natural Gas Usage (Million CF) * Emission Factor (lb/Million CF)

2023 Natural Gas Usage = 101.21 Million Cubic Feet

Contaminant Name	Combined Emissions (lb/yr)	Combined Emissions (ton/yr)
NO_X	14,169	7.08
Lead	0.051	2.53E-05
Mercury	0.0263	1.32E-05
Cadmium	0.111	5.57E-05
SO_2	60.73	0.0304
CO	8,502	4.25
PM	769.2	0.385
VOC	556.7	0.278
CO_2	12,145,200	6,073

Potential to Emit from Exempt Natural Gas Combustion

PTE from Natural Gas Combustion in Exempt Source (lb/yr) = Annual Emissions Per Source (lb/yr) / Hours of Operation per Source (hr/yr) * 8,760 hr/yr

PTE (tons/yr) = Emissions (lb/yr) / 604.8 (hr/yr) * 8,760 (hr/yr) / 2000 (lb/ton)

Analysis assumes PTE for MSW Combustors would be based on MSW combustion only (no use of natural gas as supplemental fuel)

Contaminant Name	Exempt Process E01		
	Annual (lb/yr)	Hourly (lb/hr)	PTE (ton/yr)
NO_X	2,037	3.37	14.75
Lead	0.0073	0.000012	0.000053
Mercury	0.0038	0.0000063	0.000027
Cadmium	0.016	0.000026	0.00012
SO_2	8.73	0.014	0.063
CO	1,222	2.02	8.85
PM	110.6	0.18	0.80
VOC	80.03	0.13	0.58
CO_2	1,746,000	2,887	12,645

New York State Department of Environmental Conservation
Division of Air Resources
2023 Emission Statement

Section 2.3 - Combustion and Incineration Process Emissions

Owner: WHEELABRATOR HUDSON FALLS LLC
93 RIVER ST
HUDSON FALLS, NY 12839

Facility: WHEELABRATOR HUDSON FALLS
93 RIVER ST
HUDSON FALLS, NY 12839

DARID: 5344010149
Primary SIC: 4953 **DECID:** 5534400001

Process Data

Emission Unit: U-00001

If any Process data including SCC Code, "thruput units", or process description need to be changed, please contact DEC.

SCC: 3-90-006-89 NATURAL GAS:GENERAL **Process ID:** 001

SCC Desc: IN-PROCESS FUEL USE
INDUSTRIAL PROCESSES - IN-PROCESS FUEL USE
General

Fuel Type: NATURAL GAS **Annual Thruput:** 39.80 **Thruput Units:** * million cubic feet burned

* Do not use any "Thruput Units" other than those which correspond to this Process SCC Code.

Process Description:

This process involves natural gas combustion during upset conditions and as supplemental fuel during startup and shutdown. In addition, this unit is operated on natural gas during warm up prior to introducing waste. All the emission limits and compliance are associated with process 002 for this emission unit.

Control Equipment Description:

Provide control efficiency below with emissions summary

Operational Data:

Annual Average			Percent Fuel Use by Season				Jun - Aug			Jan, Feb, & Dec of 2023		
Hrs/Day	Days/Wk	Wks/Yr	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	Hrs/Day	Days/Wk	Total Days	Hrs/Day	Days/Wk	Total Days
2.94	0.86	6.38	26.0	20.9	34.0	19.0	4.56	1.33	17.46	1.59	0.46	5.95

Process Contaminant Summary:

Providing fuel combustion emissions for the process listed above is OPTIONAL. REPORT EMISSIONS IF KNOWN.
Otherwise, federal emission factors will be used to calculate your emissions.

Chem Family	CAS No.	Contaminant Name	Control Efficiency (%)	Actual (Lbs/yr)	HD	Emission Factor	Source
6	000124-38-9	CARBON DIOXIDE					
5	000630-08-0	CARBON MONOXIDE					
8	007439-92-1	LEAD					
2	007446-09-5	SULFUR DIOXIDE					
3	010102-44-0	NITROGEN DIOXIDE					
7	0NY075-00-5	PM-10					
1	0NY075-10-0	UNSPECIATED PARTICULATES (EMISSION STATEMENT USE ONLY)					
7	0NY075-10-5	UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)					
3	0NY210-00-0	OXIDES OF NITROGEN					
4	0NY998-10-0	UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)					

Data Not Measured - Use Federal Emission Factors for Calculations

New York State Department of Environmental Conservation
Division of Air Resources
2023 Emission Statement

Section 2.3 - Combustion and Incineration Process Emissions

Owner: WHEELABRATOR HUDSON FALLS LLC
93 RIVER ST
HUDSON FALLS, NY 12839

Facility: WHEELABRATOR HUDSON FALLS
93 RIVER ST
HUDSON FALLS, NY 12839

DARID: 5344010149
Primary SIC: 4953 **DECID:** 5534400001

Process Data

Emission Unit: U-00002

If any Process data including SCC Code, "thruput units", or process description need to be changed, please contact DEC.

SCC: 3-90-006-89 NATURAL GAS:GENERAL **Process ID:** 003

SCC Desc: IN-PROCESS FUEL USE
INDUSTRIAL PROCESSES - IN-PROCESS FUEL USE
General

Fuel Type: NATURAL GAS **Annual Thruput:** 46.86 **Thruput Units:** * million cubic feet burned

*** Do not use any "Thruput Units" other than those which correspond to this Process SCC Code.**

Process Description:

This process involves natural gas combustion during upset conditions and as supplemental fuel during startup and shutdown. In addition, this unit is operated on natural gas during warm up prior to introducing waste. All the emission limits and compliance are associated with process 004 for this emission unit.

Control Equipment Description:

Provide control efficiency below with emissions summary

Operational Data:

Annual Average			Percent Fuel Use by Season				Jun - Aug			Jan, Feb, & Dec of 2023		
Hrs/Day	Days/Wk	Wks/Yr	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	Hrs/Day	Days/Wk	Total Days	Hrs/Day	Days/Wk	Total Days
3.61	1.06	7.85	25.7	21.2	32.2	20.8	5.45	1.59	20.89	2.95	0.86	11.07

Process Contaminant Summary:

Providing fuel combustion emissions for the process listed above is OPTIONAL. REPORT EMISSIONS IF KNOWN.
Otherwise, federal emission factors will be used to calculate your emissions.

Chem Family	CAS No.	Contaminant Name	Control Efficiency (%)	Actual (Lbs/yr)	HD	Emission Factor	Source
6	000124-38-9	CARBON DIOXIDE					
5	000630-08-0	CARBON MONOXIDE					
8	007439-92-1	LEAD					
2	007446-09-5	SULFUR DIOXIDE					
3	010102-44-0	NITROGEN DIOXIDE					
7	0NY075-00-5	PM-10					
1	0NY075-10-0	UNSPECIATED PARTICULATES (EMISSION STATEMENT USE ONLY)					
7	0NY075-10-5	UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)					
3	0NY210-00-0	OXIDES OF NITROGEN					
4	0NY998-10-0	UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)					

Data Not Measured - Use Federal Emission Factors for Calculations

New York State Department of Environmental Conservation
Division of Air Resources
2023 Emission Statement

Section 2.3 - Combustion and Incineration Process Emissions

Owner: WHEELABRATOR HUDSON FALLS LLC
93 RIVER ST
HUDSON FALLS, NY 12839

Facility: WHEELABRATOR HUDSON FALLS
93 RIVER ST
HUDSON FALLS, NY 12839

DARID: 5344010149
Primary SIC: 4953 **DECID:** 5534400001

Process Data

Emission Unit: E-I0001

If any Process data including SCC Code, "thruput units", or process description need to be changed, please contact DEC.

SCC: 1-03-006-03 C/I:NAT.GAS/<10 MMBTU/HR **Process ID:** E01 (EXEMPT)

SCC Desc: EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL
COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS
Less Than 10 MMBtu/Hr

Fuel Type: NATURAL GAS **Annual Thruput:** 14.55 **Thruput Units:** * million cubic feet burned

* Do not use any "Thruput Units" other than those which correspond to this Process SCC Code.

Process Description:
Space heaters.

Control Equipment Description:
Provide control efficiency below with emissions summary

Operational Data:

Annual Average			Percent Fuel Use by Season				Jun - Aug			Jan, Feb, & Dec of 2023		
Hrs/Day	Days/Wk	Wks/Yr	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	Hrs/Day	Days/Wk	Total Days	Hrs/Day	Days/Wk	Total Days
4.0	7.0	21.6	50	25	0	25	0.0	0.0	00	4.0	7.0	90

Process Contaminant Summary:

Providing fuel combustion emissions for the process listed above is OPTIONAL. REPORT EMISSIONS IF KNOWN.
Otherwise, federal emission factors will be used to calculate your emissions.

Chem Family	CAS No.	Contaminant Name	Control Efficiency (%)	Actual (Lbs/yr)	HD	Emission Factor	Source
9	000050-00-0	FORMALDEHYDE					
9	000050-32-8	BENZO(A)PYRENE					
8	000053-70-3	DIBENZ[A,H]ANTHRACENE					
8	000056-49-5	3-METHYLCHOLANTHRENE					
9	000056-55-3	BENZO(A)ANTHRACENE					
8	000057-97-6	7,12-DIMETHYLBENZ[A]ANTHRACENE					
9	000071-43-2	BENZENE					
6	000074-82-8	METHANE					
6	000074-84-0	ETHANE					
4	000074-98-6	PROPANE					
9	000075-07-0	ACETALDEHYDE					
8	000083-32-9	ACENAPHTHENE					
9	000085-01-8	PHENANTHRENE					
8	000086-73-7	FLUORENE					
9	000091-20-3	NAPHTHALENE					
8	000091-57-6	2-METHYL NAPHTHALENE					
4	000106-97-8	BUTANE					
9	000107-02-8	ACROLEIN					

EMISSIONS OF AIR CONTAMINANTS FROM MSW COMBUSTION

Annual Emissions (Based on 2023 Operations Per Emission Unit from Emission Statement)

Process 002 66,911.95 tons burned 5851.2 Hours of Operation in 2023 (20.96 hr/day; 6.13 days/wk; 45.54 wk/yr)
Process 004 66,458 tons burned 6566.5 Hours of Operation in 2023 (21.78 hr/day; 6.37 days/wk; 47.33 wk/yr)

Contaminant Name	Emissions by Process		2023 Actual Operations		Data Source
	Process 002 (lb/yr)	Process 004 (lb/yr)	Combined lb/yr	Combined ton/yr	
CO	**17,600**	**38,300**	55,900	27.95	2023 Emission Statement
Dioxin	**0.0011**	**0.0028**	0.0039	1.97E-06	2023 Emission Statement
Lead	**65.80**	**23.50**	89.30	4.47E-02	2023 Emission Statement
Mercury	**2.95**	**2.85**	5.80	2.90E-03	2023 Emission Statement
Cadmium	**7.87**	**1.94**	9.81	4.91E-03	2023 Emission Statement
Chromium VI*	**0.038**	**0.59**	0.63	3.16E-04	2023 Stack Test & 2023 Hours
PCB**	**0.0041**	**0.0046**	0.009	4.33E-06	2023 Stack Test & 2023 Hours
PAH***	**0.17**	**0.19**	0.35	1.76E-04	2023 Stack Test & 2023 Hours
SO_2	**14,200**	**9,910**	24,110	12.06	2023 Emission Statement
HCl	**19,800**	**24,000**	43,800	21.90	2023 Emission Statement
PM-10	**3,940**	**1,880**	5,820	2.91	2023 Emission Statement
NO_X	**182,000**	**207,000**	389,000	194.50	2023 Emission Statement
VOC	**649**	**601**	1,250	0.63	2023 Emission Statement
CO_2****	**131,816,542**	**130,922,260**	262,738,802	131,369	AP-42 Chapter 2.1

* - Based on stack test hourly emission data (6.52E-6 lb/hr and 5851.2 hr/yr for Unit 1 and 9.03E-5 lb/hr and 6566.5 hr/yr for Unit 2)

** - Based on stack test hourly emission data (6.97E-7 lb/hr per unit and 5851.2 hr/yr for Unit 1 and 6566.5 hr/yr for Unit 2)

*** - Based on stack test hourly emission data (2.84E-5 lb/hr per unit and 5851.2 hr/yr for Unit 1 and 6566.5 hr/yr for Unit 2)

**** - Based on combustion totals and AP-42 emission factor for CO_2 (Chapter 2.1), 1.97E+03 lb/ton (Uncontrolled)

Potential to Emit Calculations

- PTE (lb/yr for pollutants with Conc. Based limits) = Avg. Air Flow per Process * Pollutant Concentration * 60 min/hr * 8,760 hr/yr
Pollutant Concentration conversions based on contaminant Molecular Weight (64.0648 for SO2; 46.0 for NOX; 28.0 for CO; and 36.46 for HCl)
- VOC calculation uses permit established factor of 4.5 lb VOC per hour for each incinerator and 8,760 hours per year
- Chromium VI, PCB and PAH calculations use permit established emission factors for each incinerator and 8,760 hours per year
- CO_2 calculations based on NO_X hourly scaled up based on Emission Factors in AP-42 Chapter 2.1 (3.56E+00 for NO_X and 1.97E+03 for CO_2)
(CO2 lb/hr = NOX lb/hr * (1.97E+03 / 3.56E+00))

Contaminant Name	Max. Concentration Limit in Permit		Emissions by Process (lb/hr)		Combined PTE at 8,760 hr/yr		PTE Based on Permitted NO_X or other Mass Limit*	
			Process 002	Process 004	lb/hr	lb/yr	lb/yr	ton/yr
CO	100	ppm	11.12	10.63	21.75	190,527	192,407	96.20
Dioxin	35	ng/dscm	3.34E-06	3.19E-06	6.53E-06	0.057	0.058	2.89E-05
Lead	400	ug/dscm	3.82E-02	3.65E-02	7.47E-02	654	660.5	0.33
Mercury	50	ug/dscm	4.77E-03	4.56E-03	9.33E-03	81.76	82.57	4.13E-02
Cadmium	35	ug/dscm	3.34E-03	3.19E-03	6.53E-03	57.23	57.80	2.89E-02
Chromium VI**	N/A	(based on 0.02 lb/hr per incinerator)			0.004	35.04	35.04	1.75E-02
PCB***	N/A	(based on 0.000213 lb/hr per incinerator)			0.000426	3.73	3.73	1.87E-03
PAH****	N/A	(based on 0.0085 lb/hr per incinerator)			0.017	148.9	148.9	7.45E-02
SO_2	29	ppm	7.38	7.05	14.43	126,420	127,668	63.83
HCl	29	ppm	4.20	4.01	8.21	71,947	72,657	36.33
PM-10	25	mg/dscm	2.39	2.28	4.67	40,880	41,283	20.64
NO_X*****	205	ppm	37.46	35.79	73.25	641,668	648,000	324.0
VOC	N/A	(based on 4.5 lb VOC/hr from each incinerator)				78,840	78,840	39.42
CO_2	N/A		20,730	19,804	40,534.29	355,080,418	358,584,270	179,292
Avg Air Flow (DSCFM 7% O2)			25,491	24,352	(from 2023 Stack Testing)			

* - Application PTE is based on calculated PTE adjusted to be consistent with 648,000 lb/yr annual NO_X limit listed in current permit to account for slight fluctuations in air flow from stack testing performed annually. No adjustments for Chromium VI, PCB, PAH or VOC due to mass limits in permit.

* - Chromium VI PTE is limited by permit condition of 0.002 lb/hr for each incinerator.

** - PCB PTE is limited by permit condition of 0.000213 lb/hr for each incinerator.

*** - PAH PTE is limited by permit condition of 0.0085 lb/hr for each incinerator.

**** - NO_X has existing emission limits per emission unit in the permit (162 tons each), and MSW Combustion PTE was calculated to comply with that facility-wide limit.

Attachment A.3

2023 HAP Emissions Summary from MSW Combustion Activities

2023 Emission Statement Data for HAP Emissions

Annual HAP Emissions from MSW Combustion - 2023 (from 2023 Emission Statement or based on 2023 Stack Testing and Hours for PCB):

Family	CAS No.	Contaminant Name	Unit 1 Lb/Yr	Unit 2 Lb/Yr	Combined lb/yr	PM/HAP Category 8	VOC/HAP Category 9	HAP Only Category 10	Total HAP lb/yr	Total HAP tons/yr
9	000050-00-0	FORMALDEHYDE	3.43E+02	3.47E+02	6.90E+02		690		6.90E+02	3.45E-01
9	000050-32-8	BENZO(A)PYRENE	2.78E-03	1.22E-03	4.00E-03		0.004		4.00E-03	2.00E-06
6	000074-82-8	METHANE			0.00E+00				0.00E+00	0.00E+00
6	000124-38-9	CARBON DIOXIDE			0.00E+00				0.00E+00	0.00E+00
5	000630-08-0	CARBON MONOXIDE	1.76E+04	3.84E+04	5.60E+04				0.00E+00	0.00E+00
9	001336-36-3	POLYCHLORINATED BIPHENYL (PCB)	4.08E-03	4.58E-03	8.66E-03		0.00866		8.66E-03	4.33E-06
8	001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.11E-03	2.83E-03	3.94E-03	0.00394			3.94E-03	1.97E-06
8	007439-92-1	LEAD	6.58E+01	2.35E+01	8.93E+01	89.3			8.93E+01	4.47E-02
8	007439-96-5	MANGANESE	2.95E+00	2.85E+00	5.80E+00	5.8			5.80E+00	2.90E-03
8	007439-97-6	MERCURY	2.95E+00	2.85E+00	5.80E+00	5.8			5.80E+00	2.90E-03
8	007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	1.63E+00	1.48E+00	3.11E+00	3.11			3.11E+00	1.56E-03
8	007440-38-2	ARSENIC	5.81E-01	1.67E-01	7.48E-01	0.748			7.48E-01	3.74E-04
1	007440-39-3	BARIUM	2.65E+00	1.64E+00	4.29E+00				0.00E+00	0.00E+00
8	007440-41-7	BERYLLIUM	2.78E-02	2.74E-02	5.52E-02	0.0552			5.52E-02	2.76E-05
8	007440-43-9	CADMIUM	7.87E+00	1.94E+00	9.81E+00	9.81			9.81E+00	4.91E-03
8	007440-47-3	CHROMIUM	2.13E+00	1.87E+00	4.00E+00	4			4.00E+00	2.00E-03
8	007440-48-4	COBALT	1.14E-01	1.10E-01	2.24E-01	0.224			2.24E-01	1.12E-04
1	007440-50-8	COPPER	1.71E+01	6.92E+00	2.40E+01				0.00E+00	0.00E+00
1	007440-62-2	VANADIUM	1.12E-01	1.10E-01	2.22E-01				0.00E+00	0.00E+00
1	007440-66-6	ZINC	2.80E+02	1.11E+02	3.91E+02				0.00E+00	0.00E+00
2	007446-09-5	SULFUR DIOXIDE	1.42E+04	9.91E+03	2.41E+04				0.00E+00	0.00E+00
10	007647-01-0	HYDROGEN CHLORIDE	1.98E+04	2.40E+04	4.38E+04			43,800	4.38E+04	2.19E+01
10	007664-39-3	HYDROGEN FLUORIDE	1.25E+02	1.20E+02	2.45E+02			245	2.45E+02	1.23E-01
6	007664-93-9	SULFURIC ACID	1.03E+03	6.65E+02	1.70E+03				0.00E+00	0.00E+00
8	007782-49-2	SELENIUM	1.12E-01	1.10E-01	2.22E-01	0.222			2.22E-01	1.11E-04
3	10102-44-0	NITROGEN DIOXIDE			0.00E+00				0.00E+00	0.00E+00
6	036088-22-9	PENTACHLORODIBENZODIOXIN			0.00E+00				0.00E+00	0.00E+00
7	0NY075-005	PM-10			0.00E+00				0.00E+00	0.00E+00
1	0NY075-10-0	UNSPECIATED PARTICULATES	3.94E+03	1.88E+03	5.82E+03				0.00E+00	0.00E+00
7	0NY075-10-5	UNSPECIATED PM-10			0.00E+00				0.00E+00	0.00E+00
3	ONY21O-00-0	OXIDES OF NITROGEN	1.82E+05	2.07E+05	3.89E+05				0.00E+00	0.00E+00
4	0NY998-10-0	UNSEPCIATED VOC	6.49E+02	6.01E+02	1.25E+03				0.00E+00	0.00E+00
		TOTAL HAP (BY CATEGORY AND ALL HAP COMBINED)				119.07	690.01	44,045	4.49E+04	2.24E+01

"Family" Designations from Emission Statement are counted into Total HAP (8 = PM/HAP; 9 = VOC/HAP; 10 = HAP Only), all others do not count toward Total HAP amount.

New York State Department of Environmental Conservation
Division of Air Resources
2023 Emission Statement

Section 2.3 - Combustion and Incineration Process Emissions

Owner: WHEELABRATOR HUDSON FALLS LLC
93 RIVER ST
HUDSON FALLS, NY 12839

Facility: WHEELABRATOR HUDSON FALLS
93 RIVER ST
HUDSON FALLS, NY 12839

DARID: 5344010149
Primary SIC: 4953 **DECID:** 5534400001

Process Data

Emission Unit: U-00001

If any Process data including SCC Code, "thruput units", or process description need to be changed, please contact DEC.

SCC: 5-03-001-12 INCINERTR-IND:WATERWALL COMB **Process ID:** 002

SCC Desc: SOLID WASTE DISPOSAL - INDUSTRIAL
SOLID WASTE DISPOSAL: INDUSTRIAL - INCINERATION
SOL WST DISP-INDUSTRIAL:INCINERATION:MASS BURN WATERWALL COMBUSTOR

Fuel Type: REFUSE DERIVED FUEL **Annual Thruput:** 66,911.95 **Thruput Units:** * tons burned

* Do not use any "Thruput Units" other than those which correspond to this Process SCC Code.

Process Description:

This process involves municipal solid waste and/or solid waste combustion (mass-burn) in a water wall refractory combustor to generate electricity for sale.

Control Equipment Description:

Provide control efficiency below with emissions summary

Operational Data:

Annual Average			Percent Fuel Use by Season				Jun - Aug			Jan, Feb, & Dec of 2023		
Hrs/Day	Days/Wk	Wks/Yr	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	Hrs/Day	Days/Wk	Total Days	Hrs/Day	Days/Wk	Total Days
20.96	6.13	45.54	25.5	25.1	25.4	24.0	21.65	6.31	83.00	21.27	6.20	79.77

Process Contaminant Summary:

Providing fuel combustion emissions for the process listed above is OPTIONAL. REPORT EMISSIONS IF KNOWN.
Otherwise, federal emission factors will be used to calculate your emissions.

Chem Family	CAS No.	Contaminant Name	Control Efficiency (%)	Actual (Lbs/yr)	HD	Emission Factor	Source
9	000050-00-0	FORMALDEHYDE		3.43E+02	1		
9	000050-32-8	BENZO(A)PYRENE		2.78E-03	1		
6	000074-82-8	METHANE					
6	000124-38-9	CARBON DIOXIDE					
5	000630-08-0	CARBON MONOXIDE		1.76E+04	7		
9	001336-36-3	POLYCHLORINATED BIPHENYL					
8	001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN		1.11E-03	1		
8	007439-92-1	LEAD		6.58E+01	1		
8	007439-96-5	MANGANESE		2.95E+00	1		
8	007439-97-6	MERCURY		2.95E+00	1		
8	007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS		1.63E+00	1		
8	007440-38-2	ARSENIC		5.81E-01	1		
1	007440-39-3	BARIUM		2.65E+00	1		
8	007440-41-7	BERYLLIUM		2.78E-02	1		
8	007440-43-9	CADMIUM		7.87E+00	1		
8	007440-47-3	CHROMIUM		2.13E+00	1		
8	007440-48-4	COBALT		1.14E-01	1		
1	007440-50-8	COPPER		1.71E+01	1		

New York State Department of Environmental Conservation
Division of Air Resources
2023 Emission Statement

Section 2.3 - Combustion and Incineration Process Emissions

Owner: WHEELABRATOR HUDSON FALLS LLC
93 RIVER ST
HUDSON FALLS, NY 12839

Facility: WHEELABRATOR HUDSON FALLS
93 RIVER ST
HUDSON FALLS, NY 12839

DARID: 5344010149

Primary SIC: 4953 **DECID:** 5534400001

Process Contaminant Summary:

Providing fuel combustion emissions for the process listed above is OPTIONAL. REPORT EMISSIONS IF KNOWN. Otherwise, federal emission factors will be used to calculate your emissions.

Chem Family	CAS No.	Contaminant Name	Control Efficiency (%)	Actual (Lbs/yr)	HD	Emission Factor	Source
1	007440-62-2	VANADIUM		1.12E-01	1		
1	007440-66-6	ZINC		2.80E+02	1		
2	007446-09-5	SULFUR DIOXIDE	80	1.42E+04	7		
10	007647-01-0	HYDROGEN CHLORIDE	98	1.98E+04	1		
10	007664-39-3	HYDROGEN FLUORIDE	99.9	1.25E+02	1		
6	007664-93-9	SULFURIC ACID		1.03E+03	1		
8	007782-49-2	SELENIUM		1.12E-01	1		
3	010102-44-0	NITROGEN DIOXIDE					
6	036088-22-9	PENTACHLORODIBENZODIOXIN					
7	0NY075-00-5	PM-10					
1	0NY075-10-0	UNSPECIATED PARTICULATES (EMISSION STATEMENT USE ONLY)		3.94E+03	1		
7	0NY075-10-5	UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)					
3	0NY210-00-0	OXIDES OF NITROGEN		1.82E+05	7		
4	0NY998-10-0	UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)		6.49E+02	1		

New York State Department of Environmental Conservation
Division of Air Resources
2023 Emission Statement

Section 2.3 - Combustion and Incineration Process Emissions

Owner: WHEELABRATOR HUDSON FALLS LLC
93 RIVER ST
HUDSON FALLS, NY 12839

Facility: WHEELABRATOR HUDSON FALLS
93 RIVER ST
HUDSON FALLS, NY 12839

DARID: 5344010149
Primary SIC: 4953 **DECID:** 5534400001

Process Data

Emission Unit: U-00002

If any Process data including SCC Code, "thruput units", or process description need to be changed, please contact DEC.

SCC: 5-03-001-12 INCINERTR-IND:WATERWALL COMB **Process ID:** 004

SCC Desc: SOLID WASTE DISPOSAL - INDUSTRIAL
SOLID WASTE DISPOSAL: INDUSTRIAL - INCINERATION
SOL WST DISP-INDUSTRIAL:INCINERATION:MASS BURN WATERWALL COMBUSTOR

Fuel Type: REFUSE DERIVED FUEL **Annual Thruput:** 66,458 **Thruput Units:** * tons burned

* Do not use any "Thruput Units" other than those which correspond to this Process SCC Code.

Process Description:

This process involves municipal solid waste and/or solid waste combustion (mass-burn) in a water wall refractory combustor to generate electricity for sale.

Control Equipment Description:

Provide control efficiency below with emissions summary

Operational Data:

Annual Average			Percent Fuel Use by Season				Jun - Aug			Jan, Feb, & Dec of 2023		
Hrs/Day	Days/Wk	Wks/Yr	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	Hrs/Day	Days/Wk	Total Days	Hrs/Day	Days/Wk	Total Days
21.78	6.37	47.33	26.0	24.7	24.5	24.7	21.87	6.38	83.85	22.30	6.50	83.63

Process Contaminant Summary:

Providing fuel combustion emissions for the process listed above is OPTIONAL. REPORT EMISSIONS IF KNOWN.
Otherwise, federal emission factors will be used to calculate your emissions.

Chem Family	CAS No.	Contaminant Name	Control Efficiency (%)	Actual (Lbs/yr)	HD	Emission Factor	Source
9	000050-00-0	FORMALDEHYDE		3.47E+02	1		
9	000050-32-8	BENZO(A)PYRENE		1.22E-03	1		
6	000074-82-8	METHANE					
6	000124-38-9	CARBON DIOXIDE					
5	000630-08-0	CARBON MONOXIDE		3.83E+04	7		
9	001336-36-3	POLYCHLORINATED BIPHENYL					
8	001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN		2.83E-03	1		
8	007439-92-1	LEAD		2.35E+01	1		
8	007439-96-5	MANGANESE		2.85E+00	1		
8	007439-97-6	MERCURY		2.85E+00	1		
8	007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS		1.48E+00	1		
8	007440-38-2	ARSENIC		1.67E-01	1		
1	007440-39-3	BARIUM		1.64E+00	1		
8	007440-41-7	BERYLLIUM		2.74E-02	1		
8	007440-43-9	CADMIUM		1.94E+00	1		
8	007440-47-3	CHROMIUM		1.87E+00	1		
8	007440-48-4	COBALT		1.10E-01	1		
1	007440-50-8	COPPER		6.92E+00	1		

New York State Department of Environmental Conservation
Division of Air Resources
2023 Emission Statement

Section 2.3 - Combustion and Incineration Process Emissions

Owner: WHEELABRATOR HUDSON FALLS LLC
93 RIVER ST
HUDSON FALLS, NY 12839

Facility: WHEELABRATOR HUDSON FALLS
93 RIVER ST
HUDSON FALLS, NY 12839

DARID: 5344010149

Primary SIC: 4953 **DECID:** 5534400001

Process Contaminant Summary:

Providing fuel combustion emissions for the process listed above is OPTIONAL. REPORT EMISSIONS IF KNOWN. Otherwise, federal emission factors will be used to calculate your emissions.

Chem Family	CAS No.	Contaminant Name	Control Efficiency (%)	Actual (Lbs/yr)	HD	Emission Factor	Source
1	007440-62-2	VANADIUM		1.10E-01	1		
1	007440-66-6	ZINC		1.11E+02	1		
2	007446-09-5	SULFUR DIOXIDE	80	9.91E+03	7		
10	007647-01-0	HYDROGEN CHLORIDE	98	2.40E+04	1		
10	007664-39-3	HYDROGEN FLUORIDE	99	1.20E+02	1		
6	007664-93-9	SULFURIC ACID		6.65E+02	1		
8	007782-49-2	SELENIUM		1.10E-01	1		
3	010102-44-0	NITROGEN DIOXIDE					
6	036088-22-9	PENTACHLORODIBENZODIOXIN					
7	0NY075-00-5	PM-10					
1	0NY075-10-0	UNSPECIATED PARTICULATES (EMISSION STATEMENT USE ONLY)		1.88E+03	1		
7	0NY075-10-5	UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)					
3	0NY210-00-0	OXIDES OF NITROGEN		2.07E+05	7		
4	0NY998-10-0	UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)		6.01E+02	1		

Attachment B

Title V Permit Renewal Forms

DEC ID: 5534400001 Application ID: 553440000100016 **Renewal Number: 5**

Facility: WHEELABRATOR HUDSON FALLS

Mar 29, 2024 10:40 am

Section I - Certification

Permit Application Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

submitted. Based on my inquiry of the person or persons directly responsible for gathering the information I believe the information is true, accurate and complete. I am aware that there are significant penalties forsubmitting false information,

including the possibility of fines and imprisonment for knowing violations.

Responsible Official	Maurice G. Holcomb	Title	Plant Manager
Signature	Maurice C Holcomb	Date	5.25.2024

Professional Engineer Certification

I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments as they pertain to the practice of engineering.

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Professional Engineer	JEFFREY A. MARX	NYS License No.	082100
Signature	Jeffrey A. Marx	Date	5/25/2024

DEC ID: 5534400001 **Application ID:** 553440000100016 **Renewal Number: 5**

Facility: WHEELABRATOR HUDSON FALLS Mar 29, 2024 10:40 am

Section II - Identification Information

Permit Type: Air Title V Facility (ATV)
RENEWAL

General Permit Title:

☐ **Application involves construction of new facility** ☐ **Application involves construction of new emission unit(s)**

Owner / Firm

Name WHEELABRATOR HUDSON FALLS LLC
Street 93 RIVER ST
City HUDSON FALLS **State** NY **Country** USA **Zip** 12839
Owner Classification Corporation/Partnership **Taxpayer Id** 721541910

Facility

Name WHEELABRATOR HUDSON FALLS
Address 93 RIVER ST
City HUDSON FALLS **Zip** 12839 1354

Owner / Firm Contact Information

Name MAURICE C HOLCOMB **Phone No.** 5187472390
Affiliation PLANT MANAGER **Fax No.** 5187472582
Title
Street WHEELABRATOR HUDSON FALLS LLC
93 RIVER ST
City HUDSON FALLS **State** NY **Country** USA **Zip** 12839
E-mail

Project Description

Application for renewal of Air Title V Facility.

Section III - Facility Information

Classification

[X] INDUSTRIAL

Affected States

VERMONT

SIC Codes

4953

NAICS Codes

5622

Facility Description

The Wheelabrator Hudson Falls, L.L.C. facility is designed to process 600 tons per day of municipal solid waste and/or solid waste. The facility consists of two identical municipal waste combustors with state-of-the-art pollution control equipment. The facility also utilizes on exempt 200 HP emergency fire pump which Subpart ZZZZ (RICE NESHAP) applies.

Compliance Statements (Title V Only)

I certify that as of the date of this application the facility is in compliance with all applicable requirements [X] **YES** [ ] **NO**

If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block of section IV of this form along with the compliance plan information required. For all emission units at this facility that are operating in compliance with all applicable requirements complete the following:

[X] **This facility will continue to be operated and maintained in such manner as to assure compliance for the duration of the permit, except those units referenced in the compliance plan portion of Section IV of this application.**

[X] **For all emission units, subject to any applicable requirements that will become effective during the term of the permit, this facility will meet all such requirements on a timely basis.**

[X] **Compliance certification reports will be submitted at least once a year. Each report will certify compliance status with respect to each requirement, and the method used to determine status.**

Facility Applicable Federal Requirements

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	A	13	a					
40	CFR	60	Cb	35b						
40	CFR	60	Cb	36b						
40	CFR	60	Cb	38b						
40	CFR	60	Cb	39b	a					
40	CFR	63	ZZZZ							
40	CFR	68								
40	CFR	82	F							
6	NYCRR	200		6						
6	NYCRR	201	1	7						
6	NYCRR	201	1	8						
6	NYCRR	201	3	2	a					
6	NYCRR	201	3	3	a					

Section III - Facility Information
Facility Applicable Federal Requirements

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	201	6	4	a	4				
6	NYCRR	201	6	4	a	7				
6	NYCRR	201	6	4	a	8				
6	NYCRR	201	6	4	c					
6	NYCRR	201	6	4	c	3	ii			
6	NYCRR	201	6	4	d	4				
6	NYCRR	201	6	4	e					
6	NYCRR	202	1	1						
6	NYCRR	202	2	1						
6	NYCRR	202	2	5						
6	NYCRR	211		2						
6	NYCRR	215		2						
6	NYCRR	201	6							
40	CFR	60	Cb	33b	d					
40	CFR	60	Cb	34b	b					

Facility State Only Requirements

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	211		1						
6	NYCRR	617		11	d	5				
	ECL	19	0301							

Section III - Facility Information
Facility Compliance Certification

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	52	A	21	j	2				

[X] Applicable Federal Requirement

Description

The emission limit for nitrogen oxides contained in the exhaust gases discharged to the atmosphere is 372 parts per million (dry, corrected to 7% oxygen).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	0NY210-00-0	OXIDES OF NITROGEN

Monitoring Information

[X] CONTINUOUS EMISSION MONITORING (CEM)

Work Practice Type	Work Practice Code	Process Material Description	Ref Test Method
			PS-2

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Thermo Environmental Instruments Model 42-

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
372		274	parts per million by volume (dry, corrected to 7% O2)

Averaging Method	Code	08	Desc	1-HOUR AVERAGE
Monitoring Freq	Code	01	Desc	CONTINUOUS
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

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Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	A	13	e					

[X] Applicable Federal Requirement

Description

Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under subdivision 40CFR60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

Continuous monitoring systems for measuring opacity shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

Continuous monitoring systems for measuring emissions other than opacity shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

Monitoring Performed For

Emission Unit	U00001	Emission Point		Process		Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point		Process		Emission Source	

Monitoring Information

[X] RECORD KEEPING/MAINTENANCE PROCEDURES

Work Practice Type	Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method	Code		Desc	
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

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Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	a	1	i			

[X] **Applicable Federal Requirement**

Description

Each affected MWC unit is required to meet an emission limit for particulate matter not to exceed 25 milligrams per dry standard cubic meter, corrected to 7 percent oxygen. Compliance will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department. There are additional BACT limits of 27 milligrams per dry standard cubic meter (corrected to 7% oxygen) and 0.1 pounds per million Btus required under 40CFR 52.21(j)(2).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
☐	0NY075-00-0	PARTICULATES

Monitoring Information

[X] **INTERMITTENT EMISSION TESTING**

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM 5

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
25		329	milligrams per dry standard cubic meter (corrected to 7% oxygen)

Averaging Method	**Code** 20	**Desc**	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	**Code** 09	**Desc**	ANNUALLY
Reporting Reqs	**Code** 14	**Desc**	SEMI-ANNUALLY (CALENDAR)

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	a	1	iii			

[X] **Applicable Federal Requirement**

Description

The emission limit for opacity exhibited by the gases discharged to the atmosphere from a designated facility must not exceed 10 percent (6-minute average). Compliance with this limit shall be demonstrated using a continuous opacity monitor (COM) operated in accordance with a quality assurance/ quality control protocol approved by the Department. This limit is also required under 6NYCRR 617.11(d)(5).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Monitoring Information

[X] **MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE**

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			PS-1

Parameter Code	Parameter Description	Manufacturer Name/Model No.
01	OPACITY	Teledyne Monitor Labs Lighthawk 560

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
10		136	percent

Averaging Method	**Code**	44	**Desc**	6 MINUTE AVERAGE
Monitoring Freq	**Code**	01	**Desc**	CONTINUOUS
Reporting Reqs	**Code**	14	**Desc**	SEMI-ANNUALLY (CALENDAR)

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Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	a	2	i			

[X] **Applicable Federal Requirement**

Description

Each affected MWC unit is required to meet an emission limit for cadmium not to exceed 35 micrograms per dry standard cubic meter, corrected to 7 percent oxygen. Compliance will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department. This limit is also required under 6NYCRR 617.11(d)(5).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
☐	007440-43-9	CADMIUM

Monitoring Information

[X] **INTERMITTENT EMISSION TESTING**

Work Practice Type	Work Practice Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM29

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
35		370	micrograms per dry standard cubic meter (corrected to 7% oxygen)

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	09	Desc	ANNUALLY
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	a	3				

[X] Applicable Federal Requirement

Description

Each affected MWC unit is required to meet the less stringent of either of the following: an emission limit for mercury not to exceed 50 micrograms per dry standard cubic meter, corrected to 7 percent oxygen or, an 85 percent reduction by weight of the potential mercury emission concentration. Compliance with the emission concentration limit will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
☐	007439-97-6	MERCURY

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Work Practice Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM 29

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
50		370	micrograms per dry standard cubic meter (corrected to 7% oxygen)

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	09	Desc	ANNUALLY
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	a	3				

[X] **Applicable Federal Requirement**

Description

Each affected MWC unit is required to meet the less stringent of either of the following: an emission limit for mercury not to exceed 50 micrograms per dry standard cubic meter, corrected to 7 percent oxygen or, an 85 percent reduction by weight of the potential mercury emission concentration. Compliance with the latter (percent reduction) limit will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
☐	007439-97-6	MERCURY

Monitoring Information

[X] **INTERMITTENT EMISSION TESTING**

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM 29

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
	85	340	percent reduction by weight (corrected to 7% O2, dry basis)

Averaging Method	**Code** 20	**Desc**	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	**Code** 09	**Desc**	ANNUALLY
Reporting Reqs	**Code** 14	**Desc**	SEMI-ANNUALLY (CALENDAR)

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	a	4				

[X] **Applicable Federal Requirement**

Description

Each affected MWC unit is required to meet an emission limit for lead not to exceed 400 micrograms per dry standard cubic meter, corrected to 7 percent oxygen. Compliance will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department. There is an additional limit of 0.5 mg/dscm (corrected to 7% oxygen) required under 6NYCRR 617.11(d)(5).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
☐	007439-92-1	LEAD

Monitoring Information

[X] **INTERMITTENT EMISSION TESTING**

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM29

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
400		370	micrograms per dry standard cubic meter (corrected to 7% oxygen)

Averaging Method	**Code** 20	**Desc**	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	**Code** 09	**Desc**	ANNUALLY
Reporting Reqs	**Code** 14	**Desc**	SEMI-ANNUALLY (CALENDAR)

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Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	b	3	i			

[X] Applicable Federal Requirement

Description

Each affected MWC unit is required to meet the less stringent of either of the following: an emission limit for sulfur dioxide not to exceed 29 parts per million by volume or 25 percent of the potential sulfur dioxide emission concentration (75-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis). Compliance with these limits is based on a 24-hour daily geometric mean. To demonstrate compliance with the percent reduction limit the owner or operator of the facility shall install, calibrate, maintain and operate a continuous emissions monitor for sulfur dioxide according toa QA/QC plan approved by the Department. There is an additional not to exceed limit of 35 parts per million, corrected to 7 percent oxygen (dry basis), or 25 percent of the potential sulfur dioxide emission concentration (75-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis) required under 40CFR 52.21(j)(2).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	007446-09-5	SULFUR DIOXIDE

Monitoring Information

[X] CONTINUOUS EMISSION MONITORING (CEM)

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			PS-2

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Western Research Model 921CE

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
	75	331	percent reduction by weight or volume (corrected to 7% O2, dry basis)

Averaging Method	Code	40	Desc	24 HOUR DAILY AVERAGE (GEOMETRIC MEAN)
Monitoring Freq	Code	01	Desc	CONTINUOUS
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	b	3	i			

[X] Applicable Federal Requirement

Description

Each affected MWC unit is required to meet the less stringent of either of the following: an emission limit for sulfur dioxide not to exceed 29 parts per million by volume or 25 percent of the potential sulfur dioxide emission concentration (75-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis). Compliance with these limits is based on a 24-hour daily geometric mean. To demonstrate compliance with the emission limit the owner or operator of the facility shall install, calibrate, maintain and operate a continuous emissions monitor for sulfur dioxide according to a QA/QC plan approved by the Department. There is an additional not to exceed limit of 35 parts per million, corrected to 7 percent oxygen (dry basis), or 25 percent of the potential sulfur dioxide emission concentration (75-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis) required under 40CFR 52.21(j)(2).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	007446-09-5	SULFUR DIOXIDE

Monitoring Information

[X] CONTINUOUS EMISSION MONITORING (CEM)

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			PS-2

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Western Research Model 921CE

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
29		274	parts per million by volume (dry, corrected to 7% O2)

Averaging Method	Code	40	Desc	24 HOUR DAILY AVERAGE (GEOMETRIC MEAN)
Monitoring Freq	Code	01	Desc	CONTINUOUS
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	b	3	ii			

[X] **Applicable Federal Requirement**

Description

Each affected MWC unit is required to meet the less stringent of either of the following: an emission limit for hydrogen chloride not to exceed 29 part per million by volume, corrected to 7 percent oxygen (dry basis) or, an 95 percent reduction by weight or volume of the potential hydrogen chloride emission concentration. Compliance with the emission standard will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department. There is an additional limit of either 35 ppmv or 95% reduction (by wt. or vol., corrected to 7% oxygen, dry basis) required under 6NYCRR 617.11(d)(5).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
☐	007647-01-0	HYDROGEN CHLORIDE

Monitoring Information

[X] **INTERMITTENT EMISSION TESTING**

Work Practice Type	Work Practice Code	Process Material Description	Ref Test Method
			EPA Method 26/26A

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
	95	331	percent reduction by weight or volume (corrected to 7% O2, dry basis)

Averaging Method	**Code**	20	**Desc**	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	**Code**	09	**Desc**	ANNUALLY
Reporting Reqs	**Code**	14	**Desc**	SEMI-ANNUALLY (CALENDAR)

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	b	3	ii			

[X] **Applicable Federal Requirement**

Description

Each affected MWC unit is required to meet the less stringent of either of the following: an emission limit for hydrogen chloride not to exceed 29 part per million by volume, corrected to 7 percent oxygen (dry basis) or, an 95 percent reduction by weight or volume of the potential hydrogen chloride emission concentration. Compliance with the emission standard will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department. There is an additional limit of either 35 ppmv or 95% reduction (by wt. or vol., corrected to 7% oxygen, dry basis) required under 6NYCRR 617.11(d)(5).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
☐	007647-01-0	HYDROGEN CHLORIDE

Monitoring Information

[X] **INTERMITTENT EMISSION TESTING**

Work Practice Type	Work Practice Code	Process Material Description	Ref Test Method
			EPA Test Method 26/26A

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
29		274	parts per million by volume (dry, corrected to 7% O2)

Averaging Method	**Code**	20	**Desc**	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	**Code**	09	**Desc**	ANNUALLY
Reporting Reqs	**Code**	14	**Desc**	SEMI-ANNUALLY (CALENDAR)

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Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	c	1	ii			

[X] **Applicable Federal Requirement**

Description

Each affected MWC unit which employs an electrostatic precipitator for emission controls is required to meet an emission concentration limit for dioxin/furan not to exceed 35 nanograms per dry standard cubic meter (total mass), corrected to 7 percent oxygen. Compliance with the limit will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
☐	001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Monitoring Information

[X] **INTERMITTENT EMISSION TESTING**

Work Practice Type	Work Practice Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM 23

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
35		330	nanograms per dry standard cubic meter (total mass, corrected to 7% O2)

Averaging Method	**Code**	20	**Desc**	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	**Code**	09	**Desc**	ANNUALLY
Reporting Reqs	**Code**	14	**Desc**	SEMI-ANNUALLY (CALENDAR)

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Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	34b	a					

[X] **Applicable Federal Requirement**

Description

The emission limit for carbon monoxide contained in the exhaust gases discharged to the atmosphere is 100 parts per million (dry, corrected to 7% oxygen). This limit is also required under 40CFR 52.21(j)(2).

In addition, the source owner or operator shall not exceed, 6NYCRR 617.11(d)(5), minimum combustion index (CI) requirements of 99.5% and 99.8% based on 8-hour and 7-day running averages, respectively. Compliance with the 100 ppm CO limit also serves to demonstrate compliance with these CI limits. However, this condition does not eliminate the requirement to maintain CI records required by other permit conditions.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	000630-08-0	CARBON MONOXIDE

Monitoring Information

[X] **CONTINUOUS EMISSION MONITORING (CEM)**

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			PS4

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Teledyne 300EM

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
100		274	parts per million by volume (dry, corrected to 7% O2)

Averaging Method	**Code**	41	**Desc**	4-HOUR BLOCK (ARITHMETIC AVERAGE)
Monitoring Freq	**Code**	01	**Desc**	CONTINUOUS
Reporting Reqs	**Code**	14	**Desc**	SEMI-ANNUALLY (CALENDAR)

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Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Eb	58b						

[X] Applicable Federal Requirement

Description

(a) The provisions for startup, shutdown, and malfunction are provided in paragraphs (a)(1) and (a)(2) of this section.

(1) The standards under this subpart apply at all times except during periods of startup, shutdown, and malfunction. Duration of startup, shutdown, or malfunction periods are limited to 3 hours per occurrence, except as provided in paragraph (a)(1)(iii) of this section. During periods of startup, shutdown, or malfunction, monitoring data shall be dismissed or excluded from compliance calculations, but shall be recorded and reported in accordance with the provisions of 40 CFR 60.59b(d)(7).

(i) The startup period commences when the affected facility begins the continuous burning of municipal solid waste and does not include any warmup period when the affected facility is combusting fossil fuel or other nonmunicipal solid waste fuel, and no municipal solid waste is being fed to the combustor.

(ii) Continuous burning is the continuous, semicontinuous, or batch feeding of municipal solid waste for purposes of waste disposal, energy production, or providing heat to the combustion system in preparation for waste disposal or energy production. The use of municipal solid waste solely to provide thermal protection of the grate or hearth during the startup period when municipal solid waste is not being fed to the grate is not considered to be continuous burning.

(iii) For the purpose of compliance with the carbon monoxide emission limits in §60.53b(a) (e.i., 60-Cb.34b(a)), if a loss of boiler water level control (e.g., boiler waterwall tube failure) or a loss of combustion air control (e.g., loss of combustion air fan, induced draft fan, combustion grate bar failure) is determined to be a malfunction, the duration of the malfunction period is limited to 15 hours per occurrence. During such periods of malfunction, monitoring data shall be dismissed or excluded from compliance calculations, but shall be recorded and reported in accordance with the provisions of §60.59b(d)(7).

§60.59b(d)(7):

Identification of each occurrence that sulfur dioxide emissions data, nitrogen oxides emissions data, particulate matter emissions data, cadmium emissions data, lead emissions data, mercury emissions data, hydrogen chloride emissions data, or dioxin/furan emissions data (for owners and operators who elect to continuously monitor particulate matter, cadmium, lead, mercury, or hydrogen chloride, or who elect to use continuous automated sampling systems for dioxin/furan or mercury emissions, instead of conducting performance testing using EPA manual test methods) or operational data (i.e. , carbon monoxide emissions, unit load, and particulate matter control device temperature) have been excluded from the calculation of average emission concentrations or parameters, and the reasons for excluding the data.

Monitoring Information

[X] RECORD KEEPING/MAINTENANCE PROCEDURES

Work Practice Type	Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method	Code		Desc	
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

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Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Eb	58b						

[X] **Applicable Federal Requirement**

Description

40CFR 60-Eb.58b(m)(1):

(m) The owner or operator of an affected facility where activated carbon injection is used to comply with the mercury emission limit under §60.52b(a)(5) (e.i., 60-Cb.33b(a)(3)), and/or the dioxin/furan emission limits under §60.52(b)(c), or the dioxin/furan emission level specified in paragraph (g)(5)(iii) of this section shall follow the procedures specified in paragraphs (m)(1) through (m)(4) of this section.

(1) During the performance tests for dioxins/furans and mercury, as applicable, the owner or operator shall estimate an average carbon mass feed rate based on carbon injection system operating parameters such as the screw feeder speed, hopper volume, hopper refill frequency, or other parameters appropriate to the feed system being employed, as specified in paragraphs (m)(1)(i) and (m)(1)(ii) of this section.

(i) An average carbon mass feed rate in kilograms per hour or pounds per hour shall be estimated during the initial performance test for mercury emissions and each subsequent performance test for mercury emissions.

(ii) An average carbon mass feed rate in kilograms per hour or pounds per hour shall be estimated during the initial performance test for dioxin/furan emissions and each subsequent performance test for dioxin/furan emissions. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the MWC plant, as provided in paragraph (g)(5)(iii) of this section, the owner or operator may elect to apply the same estimated average carbon mass feed rate from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.

Monitoring Information

[X] **RECORD KEEPING/MAINTENANCE PROCEDURES**

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method	Code		Desc	
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

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Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Eb	58b						

[X] Applicable Federal Requirement

Description

The carbon feeder screw speed (rpm), which is the primary indicator of the carbon mass feed rate must equal or exceed the level documented during the performance test (based on an 8-hour block average) specified under paragraphs(m)(1)(i) of this section or the corrected screw feeder speed obtained during periodic calibration.

Deviations from this level caused by short-term interruptions (e.g. , maintenance, calibration, malfunctions or other unavoidable conditions) may be excused, provided, during the subsequent portion of the averaging period, the required carbon mass feed rate is obtained. To minimize carbon injection system downtime, good engineering practices must always be applied.

The permitte shall report the calender dates when the screw speeds are below levels estimated during the performance test, with reasons of such occurrence and corrective actions. In addition, for the dates identified, the report shall include the hourly carbon mass feed rate data recorded under 40CFR60.59b (d)(4)(iii), with supporting calculations.

Compliance with this condition also demonstrates compliance with 6NYCRR 219-7.2

Monitoring Performed For

Emission Unit	U00001	Emission Point		Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point		Process	004	Emission Source	

Monitoring Information

[X] MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.
007440440	CARBON	

Limit Upper	Limit Lower		Limit Units Code	Limit Units Description
	Perf. Test Level		3	pounds per hour
Averaging Method	Code	54	Desc	8-HOUR BLOCK - ARITHMETIC MEAN
Monitoring Freq	Code	01	Desc	CONTINUOUS
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Eb	58b						

[X] **Applicable Federal Requirement**

Description

40CFR 60-Eb.58b(m)(3) & (4):

(3) The owner or operator of an affected facility shall estimate the total carbon usage of the plant (kilograms or pounds) for each calendar quarter by two independent methods, according to the procedures in paragraphs (m)(3)(i) and (m)(3)(ii) of this section.

(i) The weight of carbon delivered to the plant.

(ii) Estimate the average carbon mass feed rate in kilograms per hour or pounds per hour for each hour of operation for each affected facility based on the parameters specified under paragraph (m)(1) of this section, and sum the results for all affected facilities at the plant for the total number of hours of operation during the calendar quarter.

(4) Pneumatic injection pressure or other carbon injection system operational indicator shall be used to provide additional verification of proper carbon injection system operation. The operational indicator shall provide an instantaneous visual and/or audible alarm to alert the operator of a potential interruption in the carbon feed that would not normally be indicated by direct monitoring of carbon mass feed rate (e.g. , continuous weight loss feeder) or monitoring of the carbon system operating parameter(s) that are the indicator(s) of carbon mass feed rate (e.g. , screw feeder speed). The carbon injection system operational indicator used to provide additional verification of carbon injection system operation, including basis for selecting the indicator and operator response to the indicator alarm, shall be included in section (e)(6) of the site-specific operating manual required under §60.54b(e) of this subpart.

Monitoring Information

[X] **RECORD KEEPING/MAINTENANCE PROCEDURES**

Work Practice	Process Material		Ref Test Method
Type	Code	Description	

Parameter		Manufacturer Name/Model No.
Code	Description	

Limit		Limit Units	
Upper	Lower	Code	Description

Averaging Method	Code		Desc	
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	200		6						

[X] **Applicable Federal Requirement**

Description

No person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Department shall specify the degree and/or method of emission control required.

In order to evaluate the level of 1-hour NOx impacts associated with emission from this facility with respect to the National Ambient Air Quality Standard (NAAQS), the facility submitted an air dispersion model of ambient impacts. The modeled 1-hour NOx potential to emit was based on a concentrations of 260 ppm (dry, corrected to 7% oxygen) from both stacks and the 2018 stack test's flow rates. To assure the 1-hour maximum ambient concentration derived from the model is maintained, the facility shall limit NOx emissions to a combined stack average of no greater than 260 ppm (dry, corrected to 7% oxygen). The facility shall install, calibrate, maintain and operate a continuous emissions monitor for NOx according to a QA/QC plan approved by the Department.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	0NY210-00-0	OXIDES OF NITROGEN

Monitoring Information

[X] **CONTINUOUS EMISSION MONITORING (CEM)**

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			PS-2

Parameter Code	Parameter Description	Manufacturer Name/Model No.
		Thermo Environmental Instruments Model 42

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
260		274	parts per million by volume (dry, corrected to 7% O2)

Averaging Method	**Code**	08	**Desc**	1-HOUR AVERAGE
Monitoring Freq	**Code**	01	**Desc**	CONTINUOUS
Reporting Reqs	**Code**	14	**Desc**	SEMI-ANNUALLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	219	7	2						

[X] State Only Requirement

Description

The emission limit for mercury is of 28 ug/dscm (corrected to 7% oxygen) or 85% removal, whichever is less stringent. Compliance with the emission standard will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Stack testing for mercury shall follow the procedures contained in 40 CFR 60.58b(d)(2). Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department.

Emission control devices must be kept in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such devices effectively.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	007439-97-6	MERCURY

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			EPA Ref. Method 29

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
28		370	micrograms per dry standard cubic meter (corrected to 7% oxygen)

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	09	Desc	ANNUALLY
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	219	7	2						

[X] State Only Requirement

Description

The emission limit for mercury is of 28 ug/dscm (corrected to 7% oxygen) or 85% removal, whichever is less stringent. Compliance with the emission standard will be determined by conducting a stack emission test according to a protocol and schedule approved by the Department. Stack testing for mercury shall follow the procedures contained in 40 CFR 60.58b(d)(2). Subsequent stack emissions tests will be required on annual basis unless otherwise directed by the Department.

Emission control devices must be kept in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such devices effectively.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
☐	007439-97-6	MERCURY

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			EPA Ref. Method 29

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
	85	331	percent reduction by weight or volume (corrected to 7% O2, dry basis)

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	09	Desc	ANNUALLY
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	231	2							

[X] Applicable Federal Requirement

Description

The maximum annual potential (MAP) for NOx is 162 tons per year for each emission unit. This is based on the maximum allowable concentration of 205 ppm (dry, corrected to 7% O2) of NOx and an hourly design stack flow rate of 25,167 dscfm (corrected to 7% oxygen). The MAP shall be modified if the above design or allowable criteria are changed.

Monitoring Performed For

Emission Unit	U00001	Emission Point		Process		Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point		Process		Emission Source	

Monitoring Information

[X] RECORD KEEPING/MAINTENANCE PROCEDURES

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method	Code		Desc	
Monitoring Freq	Code	01	Desc	CONTINUOUS
Reporting Reqs	Code	14	Desc	SEMI-ANNUALLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

Stack testing will be performed once per permit term unless additional testing is required by the permitting authority. Emissions of total polychlorinated dibenzo-p-dioxins and polychlorinated dibenzo furans (tetra-octa homologue groups as well as associated 2,3,7,8 substituted congeners) corrected to 7% oxygen, dry basis, and expressed as 2,3,7,8 tetrachlorinated dibenzo-para-dioxin equivalents using the 1989 EPA (International) Toxic Equivalency Factors, shall not exceed 9.0 ng/dscm for each incinerator.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Work Practice Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM23

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
9.0		354	nanogram toxicity equivalence per dry standard cu meter, corrected to 7%

Averaging Method	Code	63	Desc	AVERAGING METHOD - SEE MONITORING DESCRIPTION
Monitoring Freq	Code	17	Desc	ONCE DURING THE TERM OF THE PERMIT
Reporting Reqs	Code	01	Desc	ONCE / BATCH OR MONITORING OCCURRENCE

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

Stack testing for formaldehyde will be performed once per permit term for each incinerator unless additional testing is required by the permitting authority.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	000050-00-0	FORMALDEHYDE

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			P&CAM 125

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.762		3	pounds per hour

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	17	Desc	ONCE DURING THE TERM OF THE PERMIT
Reporting Reqs	Code	01	Desc	ONCE / BATCH OR MONITORING OCCURRENCE

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

Each municipal waste combustor shall not exceed 70,000 lb/hr of steam production on a rolling 24-hour average (based on a nominal unit design of 200 tons per day of municipal solid waste with a heat value of 6200 BTU per pound).

Monitoring Performed For

Emission Unit	U00001	Emission Point		Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point		Process	004	Emission Source	

Monitoring Information

[X] MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.
53	STEAM OUTPUT	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
70000		210	pound steam per hour

Averaging Method	Code	09	Desc	24-HOUR AVERAGE
Monitoring Freq	Code	01	Desc	CONTINUOUS
Reporting Reqs	Code	13	Desc	QUARTERLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

The auxiliary burner installed in each municipal waste combustor unit shall be used to achieve a minimum temperature of 1500 degrees Fahrenheit after the last point of overfire air prior to commencing municipal solid waste feed during startup, during shutdown until complete burnout is accomplished, during normal or upset operation, and unless otherwise provided for in the Department approved operations and maintenance manual. Compliance with this requirement will be demonstrated by measuring surrogate temperature of 1100 degrees or higher at the incinerator's approved permanent thermocouple location.

Monitoring Performed For

Emission Unit	U00001	Emission Point		Process	001	Emission Source	

Monitoring Performed For

Emission Unit	U00001	Emission Point		Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point		Process	003	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point		Process	004	Emission Source	

Monitoring Information

[X] MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.
03	TEMPERATURE	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
	1500	44	degrees Fahrenheit

Averaging Method	Code	29	Desc	15-MINUTE RUNNING LIMIT
Monitoring Freq	Code	01	Desc	CONTINUOUS
Reporting Reqs	Code	13	Desc	QUARTERLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

The Permittee must maintain a surrogate temperature of 1100 degrees Fahrenheit or greater, based on a running 15 minute average of readings, recorded at each incinerator's approved permanent thermocouple location. This surrogate will demonstrate compliance with the requirement to maintain a 1500 degree or higher temperature after the last point of overfire air.

Monitoring Performed For

Emission Unit	U00001	Emission Point		Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point		Process	004	Emission Source	

Monitoring Performed For

Emission Unit	U00001	Emission Point		Process	001	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point		Process	003	Emission Source	

Monitoring Information

[X] MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.
03	TEMPERATURE	

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
	1100	44	degrees Fahrenheit

Averaging Method	Code	29	Desc	15-MINUTE RUNNING LIMIT
Monitoring Freq	Code	01	Desc	CONTINUOUS
Reporting Reqs	Code	13	Desc	QUARTERLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

Stack testing for Hydrogen Fluoride will be performed once per permit term unless additional testing is required by the permitting authority.
The emission limit is 0.04 lb/hr for each incinerator.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	007664-39-3	HYDROGEN FLUORIDE

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM26A

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.04		3	pounds per hour

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	17	Desc	ONCE DURING THE TERM OF THE PERMIT
Reporting Reqs	Code	01	Desc	ONCE / BATCH OR MONITORING OCCURRENCE

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

The permittee shall make recordings of the following parameters and provide for their tamper-proof storage:

A. Continuous emission and operational parameter monitoring data;

B. Combustion index;

C. Municipal solid waste charged to each incinerator in tons per day and daily average for each month;

D. Hourly auxiliary fuel use in each incinerator (cubic feet per hour);

E. Hourly average steam temperature (degrees Fahrenheit), steam pressure (psi), steam production (lbs/hr), and a rolling 24-hour average of steam production (lbs/hr);

F. Hourly lime slurry flow (gpm) and lime usage (lbs/hr) for each incinerator's acid gas control device;

G. Hourly readings, volts, amps and sparking rate, for all electrostatic precipitator fields and hourly average temperature (degrees Fahrenheit) at both inlet and outlet for each incinerator's particulate control device;

H. Dosing rate (lbs carbon/hr and lbs carbon/calendar quarter), screw feeder speed (rpm), hopper refill frequency and carbon deliveries (dates and quantities) for each incinerator's powdered activated carbon injection system; and

I. The frequency and duration of maintenance or cleaning periods when control devices are not operational.

Monitoring Information

[X] RECORD KEEPING/MAINTENANCE PROCEDURES

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method	Code		Desc	
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Reqs	Code	10	Desc	UPON REQUEST BY REGULATORY AGENCY

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

Stack testing for sulfuric acid will be performed once per permit term unless additional testing is required by the permitting authority. The emission limit is 1.42 lb/hr for each incinerator.

Emission limit represents emissions of sulfuric acid mist (as H2SO4).

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	007664-93-9	SULFURIC ACID

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Work Practice Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM8

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
1.42		3	pounds per hour

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	17	Desc	ONCE DURING THE TERM OF THE PERMIT
Reporting Reqs	Code	01	Desc	ONCE / BATCH OR MONITORING OCCURRENCE

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

The permittee shall submit to the Department an air emissions quarterly report covering availability of the required monitors during the period, and the performance audit of monitors and excess emissions. One out of every four reports shall include a relative accuracy test audit (RATA). The reports shall be submitted within thirty (30) days following the end of a calendar quarter to the following:

Bureau of Compliance Monitoring and Enforcement
625 Broadway
Albany, NY 12233-3258

Regional Air Pollution Engineer
232 Hudson Street
P.O. Box 220
Warrensburg, NY 12885-0220

Monitoring Information

[X] RECORD KEEPING/MAINTENANCE PROCEDURES

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description

Averaging Method	Code		Desc	
Monitoring Freq	Code	07	Desc	QUARTERLY
Reporting Reqs	Code	13	Desc	QUARTERLY (CALENDAR)

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

Stack testing will be performed once per permit term for each incinerator unless additional testing is required by the permitting authority for arsenic and the following metals:

Arsenic: - limit - 0.00125 lb/hr
Beryllium: - limit - 0.00000465 lb/hr
Vanadium: - limit - 0.000342 lb/hr
Barium: - limit - 0.005 lb/hr
Copper: - limit - 0.0085 lb/hr
Zinc: - limit - 0.75 lb/hr
Chromium: - limit - 0.065 lb/hr (emissions of CR+3)
Selenium: - limit - 0.001 lb/hr
Nickel: - limit - 0.115 lb/hr
Manganese: - limit - 0.03 lb/hr
Cobalt: - limit - 0.003 lb/hr

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	007439-96-5	MANGANESE
[ ]	007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS
[ ]	007440-38-2	ARSENIC
[ ]	007440-39-3	BARIUM
[ ]	007440-41-7	BERYLLIUM
[ ]	007440-47-3	CHROMIUM
[ ]	007440-48-4	COBALT
[ ]	007440-50-8	COPPER
[ ]	007440-62-2	VANADIUM
[ ]	007440-66-6	ZINC
[ ]	007782-49-2	SELENIUM

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Monitoring Information

[X] **INTERMITTENT EMISSION TESTING**

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM29

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.00125		3	pounds per hour

Averaging Method	**Code**	20	**Desc**	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	**Code**	17	**Desc**	ONCE DURING THE TERM OF THE PERMIT
Reporting Reqs	**Code**	01	**Desc**	ONCE / BATCH OR MONITORING OCCURRENCE

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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

Stack testing for Chromium (VI) will be performed once per permit term unless additional testing is required by the permitting authority. The emission limit is 0.002 lb/hr for each incinerator.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	018540-29-9	CHROMIUM(VI)

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			SW-846-0013

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.002		3	pounds per hour

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	17	Desc	ONCE DURING THE TERM OF THE PERMIT
Reporting Reqs	Code	01	Desc	ONCE / BATCH OR MONITORING OCCURRENCE

Section III - Facility Information
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Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

Stack testing for VOCs will be performed once per permit term unless additional testing is required by the permitting authority. Emission limit represents emissions of methane. The emission limit for VOC is 4.5lb/hr for each incinerator.

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	0NY998-00-0	VOC

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM25A

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
4.5		3	pounds per hour

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	17	Desc	ONCE DURING THE TERM OF THE PERMIT
Reporting Reqs	Code	01	Desc	ONCE / BATCH OR MONITORING OCCURRENCE

Section III - Facility Information
Facility Compliance Certification

Rule Citation

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	617		11	d	5				

[X] State Only Requirement

Description

Stack testing will be performed once per permit term for each incinerator unless additional testing is required by the permitting authority for PAH and the following organic compounds:

PAH: limit- 0.0085 lb/hr
Benzo(A)pyrene: limit - 0.00085 lb/hr
PCB: limit 0.000213 lb/hr

Monitoring Performed For

Emission Unit	U00001	Emission Point	00001	Process	002	Emission Source	

Monitoring Performed For

Emission Unit	U00002	Emission Point	00002	Process	004	Emission Source	

Contaminants

Capping	CAS No.	Contaminant Name
[ ]	000050-32-8	BENZO(A)PYRENE
[ ]	001336-36-3	POLYCHLORINATED BIPHENYL
[ ]	130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS

Monitoring Information

[X] INTERMITTENT EMISSION TESTING

Work Practice Type	Process Material Code	Process Material Description	Ref Test Method
			40 CFR 60 App A RM23

Parameter Code	Parameter Description	Manufacturer Name/Model No.

Limit Upper	Limit Lower	Limit Units Code	Limit Units Description
0.0085		3	pounds per hour

Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE
Monitoring Freq	Code	17	Desc	ONCE DURING THE TERM OF THE PERMIT
Reporting Reqs	Code	01	Desc	ONCE / BATCH OR MONITORING OCCURRENCE

Facility Emissions Summary

Cas No.	Contaminant Name	PTE (lbs/yr)	PTE (tons/yr)	Actual (lbs/yr)	Actual (tons/yr)
001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	0.058	2.89E-05	3.94E-03	1.97E-06
~~001746-01-6~~	~~2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN~~	~~0.015~~			

Section III - Facility Information

Facility Emissions Summary

Cas No.	Contaminant Name	PTE		Actual	
		(lbs/yr)	(tons/yr)	(lbs/yr)	(tons/yr)
007440-38-2	ARSENIC	21.9	1.10E-02	7.48E-01	3.74E-04
~~007440-38-2~~	~~ARSENIC~~	~~21.9~~			
007440-39-3	BARIUM	87.6	4.38E-02	4.29E+00	2.15E-03
~~007440-39-3~~	~~BARIUM~~	~~87.6~~			
000050-32-8	BENZO(A)PYRENE	14.89	7.45E-03	4.00E-03	2.00E-06
~~000050-32-8~~	~~BENZO(A)PYRENE~~	~~14.89~~			
007440-41-7	BERYLLIUM	0.081	4.05E-05	5.52E-02	2.76E-05
~~007440-41-7~~	~~BERYLLIUM~~	~~0.081~~			
007440-43-9	CADMIUM	58.0	2.90E-02	9.92E+00	4.96E-03
~~007440-43-9~~	~~CADMIUM~~	~~57.8~~			
000124-38-9	CARBON DIOXIDE	383,873,555	1.92E+05	2.75E+08	1.37E+05
~~000124-38-9~~	~~CARBON DIOXIDE~~	~~375712896~~			
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS	392,556,818	1.96E+05	2.84E+08	1.42E+05
~~0NY750-00-0~~	~~CARBON DIOXIDE EQUIVALENTS~~	~~384211564~~			
000630-08-0	CARBON MONOXIDE	210,110	1.05E+02	6.44E+04	3.22E+01
~~000630-08-0~~	~~CARBON MONOXIDE~~	~~189901~~			
007440-47-3	CHROMIUM	1139	5.70E-01	4.00E+00	2.00E-03
~~007440-47-3~~	~~CHROMIUM~~	~~1139~~			
018540-29-9	CHROMIUM(VI)	35	1.75E-02	6.31E-01	3.16E-04
~~018540-29-9~~	~~CHROMIUM(VI)~~	~~35~~			
007440-48-4	COBALT	52.56	2.63E-02	2.24E-01	1.12E-04
~~007440-48-4~~	~~COBALT~~	~~52.56~~			
007440-50-8	COPPER	149	7.45E-02	2.40E+01	1.20E-02
~~007440-50-8~~	~~COPPER~~	~~149~~			
000050-00-0	FORMALDEHYDE	13350	6.68E+00	6.90E+02	3.45E-01
~~000050-00-0~~	~~FORMALDEHYDE~~	~~13350~~			
007647-01-0	HYDROGEN CHLORIDE	72,657	3.63E+01	4.38E+04	2.19E+01
~~007647-01-0~~	~~HYDROGEN CHLORIDE~~	~~71353~~			
007664-39-3	HYDROGEN FLUORIDE	701	3.51E-01	2.45E+02	1.23E-01
~~007664-39-3~~	~~HYDROGEN FLUORIDE~~	~~701~~			
007439-92-1	LEAD	661	3.30E-01	8.93E+01	4.47E-02
~~007439-92-1~~	~~LEAD~~	~~661~~			
007439-96-5	MANGANESE	526	2.63E-01	5.80E+00	2.90E-03
~~007439-96-5~~	~~MANGANESE~~	~~526~~			
007439-97-6	MERCURY	82.62	4.13E-02	5.80E+00	2.90E-03
~~007439-97-6~~	~~MERCURY~~	~~46.24~~			
000074-82-8	METHANE	132559	6.63E+01	9.35E+04	4.68E+01

Section III - Facility Information

Facility Emissions Summary

Cas No.	Contaminant Name	PTE		Actual	
		(lbs/yr)	(tons/yr)	(lbs/yr)	(tons/yr)
000074-82-8	METHANE	132559			
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	2015	1.01E+00	3.11E+00	1.56E-03
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	2015			
010024-97-2	NITROUS OXIDE	17398	8.70E+00	1.23E+04	6.14E+00
010024-97-2	NITROUS OXIDE	17398			
0NY210-00-0	OXIDES OF NITROGEN	677,504	3.39E+02	4.03E+05	2.02E+02
0NY210-00-0	OXIDES OF NITROGEN	648000			
0NY075-00-0	PARTICULATES	42,885	2.14E+01	6.59E+03	3.29E+00
0NY075-00-0	PARTICULATES	41283			
0NY075-00-5	PM-10	42,885	2.14E+01	6.59E+03	3.29E+00
0NY075-00-5	PM-10	41283			
001336-36-3	POLYCHLORINATED BIPHENYL	3.7	1.87E-03	8.66E-03	4.33E-06
001336-36-3	POLYCHLORINATED BIPHENYL	3.7			
130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS	149	7.45E-02	3.53E-01	1.76E-04
130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS	149			
007782-49-2	SELENIUM	17.5	8.75E-03	2.22E-01	1.11E-04
007782-49-2	SELENIUM	17.5			
007446-09-5	SULFUR DIOXIDE	127,794	6.39E+01	2.42E+04	1.21E+01
007446-09-5	SULFUR DIOXIDE	125467			
007664-93-9	SULFURIC ACID	24878	1.24E+01	1.70E+03	8.48E-01
007664-93-9	SULFURIC ACID	24878			
0NY100-00-0	TOTAL HAP	89940	4.50E+01	4.49E+04	2.24E+01
0NY100-00-0	TOTAL HAP	89940			
007440-62-2	VANADIUM	6	3.00E-03	2.22E-01	1.11E-04
007440-62-2	VANADIUM	6			
0NY998-00-0	VOC	79,999	4.00E+01	1.81E+03	9.03E-01
0NY998-00-0	VOC	78840			
007440-66-6	ZINC	13140	6.57E+00	3.91E+02	1.96E-01
007440-66-6	ZINC	13140			

Section IV - Emission Unit Information

Emission Unit Description

Emission Unit	U00001

This emission unit consists of one of two identical municipal waste combustors (Source ID 00001) followed by a powdered activated carbon (PAC) injection system (source ID 00007) for mercury control, a dry scrubber absorber (Source ID 00002) for acid gas control and an electrostatic precipitator (Source ID 00003) for particulate control. Each municipal waste combustor is discharged via a dedicated flue in a common stack

Building

Building	Building Name	Length	Width	Orient.
1	BOILER BLD	74	78	

Emission Point

Emission Unit	U00001	Emission Pt.	00001			
Ground Elev (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp (`F)	Cross Section	
					Length (in)	Width (in)
230	316	188	48	321		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
94.7	71371	614.222	4795.713			

Emission Source / Control

Emission Unit	U00001	Emission Source	00001	
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.
R	02/01/1989	11/01/1991		FOSTER WHEELER
Design Capacity	275	Units Code	37	Desc: tons per day
Control Type	Code		Desc	
Waste Feed	Code	02	Desc	CHUTE FED
Waste Type	Code	01	Desc	MUNICIPAL SOLID WASTE AND/OR SOLID WASTE

Emission Unit	U00001	Emission Source	00002	
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.
K	02/01/1989	11/01/1991		BELCO DRY SCRUBBER
Design Capacity		Units Code		Desc
Control Type	Code	067	Desc	WET LIME SLURRY SCRUBBING
Waste Feed	Code		Desc	
Waste Type	Code		Desc	

Section IV - Emission Unit Information

Emission Source / Control

Emission Unit	U00001	Emission Source	00003	
Source Type	**Date of Construction**	**Date of Operation**	**Date of Removal**	**Manufacturer's Name/Model No.**
K	02/01/1989	11/01/1991		BELCO ESP
Design Capacity		**Units Code**		**Desc**
Control Type	**Code**	010	**Desc**	ELECTROSTATIC PRECIPITATOR
Waste Feed	**Code**		**Desc**	
Waste Type	**Code**		**Desc**	

Emission Unit	U00001	Emission Source	00007	
Source Type	**Date of Construction**	**Date of Operation**	**Date of Removal**	**Manufacturer's Name/Model No.**
K	04/01/2000	12/01/2000		Norit Americas
Design Capacity		**Units Code**		**Desc**
Control Type	**Code**	048	**Desc**	ACTIVATED CARBON ADSORPTION
Waste Feed	**Code**		**Desc**	
Waste Type	**Code**		**Desc**	

Process Information

Emission Unit	U00001	Process	001	
Source Classification Code (SCC)	**Total Thruput**		**Thruput Quantity Units**	
	Quantity / Hr	**Quantity / Yr**	**Code**	**Description**
39000689				

☐ Confidential	**Operating Schedule**		**Building**	**Floor / Location**
☐ Operating At Maximum Capacity	**Hrs / Day**	**Days / Yr**		

Description

This process involves natural gas combustion during upset conditions and as supplemental fuel during startup and shutdown. In addition, this unit is operated on natural gas during warm up prior to introducing waste. All the emission limits and compliance are associated with process 002 for this emission unit.

Emission Point Identifier(s)			
Emission Source / Control Identifier(s)			
00001	00002	00003	00007

Section IV - Emission Unit Information

Process Information

Emission Unit	U00001	Process	002		
Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units		
	Quantity / Hr	Quantity / Yr	Code	Description	
50300112					
☐ Confidential	Operating Schedule		Building	Floor / Location	
☐ Operating At Maximum Capacity	Hrs / Day	Days / Yr			

Description

This process involves municipal solid waste and/or solid waste combustion (mass-burn) in a water wall refractory combustor to generate electricity for sale.

Emission Point Identifier(s)			
Emission Source / Control Identifier(s)			
00001	00002	00003	00007

Emission Unit Applicable Federal Requirements

Emission Unit	U-00001	Emission Point		Process	002	Emission Source	00001			
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	34b	b					

Emission Unit	U-00001	Emission Point		Process	002	Emission Source	00003			
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	34b	b					

Emission Unit	U-00001	Emission Point	00001	Process		Emission Source				
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	Cb	33b	d					

Section IV - Emission Unit Information

Emission Unit Description

Emission Unit	U00002

This emission unit consists of one of two identical municipal waste combustors (Source ID 00004) followed by a powdered activated carbon (PAC) injection system (Source ID 00008) for mercury control, a dry scrubber (Source ID 00005) for acid gas control and an electrostatic precipitator (Source ID 00006) for particulate control. Each municipal waste combustor discharged via a dedicated flue in a common stack.

Building

Building	Building Name	Length	Width	Orient.
1	BOILER BLD	74	78	

Emission Point

Emission Unit	U00002	Emission Pt.	00002			
Ground Elev (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp (`F)	Cross Section	
					Length (in)	Width (in)
230	316	188	48	300		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
95	71639	614.224	4795.711			

Emission Source / Control

Emission Unit	U00002	Emission Source	00004		
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.	
R	02/01/1989	11/01/1991		FOSTER WHEELER	
Design Capacity	275	Units Code	37	Desc	tons per day
Control Type	Code		Desc		
Waste Feed	Code	02	Desc	CHUTE FED	
Waste Type	Code	01	Desc	MUNICIPAL SOLID WASTE AND/OR SOLID WASTE	

Emission Unit	U00002	Emission Source	00005		
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.	
K	02/01/1989	11/01/1991		BELCO DRY SCRUBBER	
Design Capacity		Units Code		Desc	
Control Type	Code	067	Desc	WET LIME SLURRY SCRUBBING	
Waste Feed	Code		Desc		
Waste Type	Code		Desc		

Emission Unit	U00002	Emission Source	00006		
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.	
K	02/01/1989	11/01/1991		BELSO ESP	
Design Capacity		Units Code		Desc	
Control Type	Code	010	Desc	ELECTROSTATIC PRECIPITATOR	
Waste Feed	Code		Desc		
Waste Type	Code		Desc		

Section IV - Emission Unit Information

Emission Source / Control

Emission Unit	U00002	Emission Source	00008	
Source Type	**Date of Construction**	**Date of Operation**	**Date of Removal**	**Manufacturer's Name/Model No.**
K	04/01/2000	12/01/2000		Norit Americas
Design Capacity		**Units Code**		**Desc**
Control Type	**Code** 048	**Desc**	ACTIVATED CARBON ADSORPTION	
Waste Feed	**Code**	**Desc**		
Waste Type	**Code**	**Desc**		

Process Information

Emission Unit	U00002	Process	003	
Source Classification Code (SCC)	**Total Thruput**		**Thruput Quantity Units**	
	Quantity / Hr	**Quantity / Yr**	**Code**	**Description**
39000689				

☐ Confidential	**Operating Schedule**		**Building**	**Floor / Location**
☐ Operating At Maximum Capacity	**Hrs / Day**	**Days / Yr**		

Description

This process involves natural gas combustion during upset conditions and as supplemental fuel during startup and shutdown. In addition, this unit is operated on natural gas during warm up prior to introducing waste. All the emission limits and compliance are associated with process 004 for this emission unit.

Emission Point Identifier(s)			
Emission Source / Control Identifier(s)			
00004	00005	00006	00008

Emission Unit	U00002	Process	004	
Source Classification Code (SCC)	**Total Thruput**		**Thruput Quantity Units**	
	Quantity / Hr	**Quantity / Yr**	**Code**	**Description**
50300112				

☐ Confidential	**Operating Schedule**		**Building**	**Floor / Location**
☐ Operating At Maximum Capacity	**Hrs / Day**	**Days / Yr**		

Description

This process involves municipal solid waste and/or solid waste combustion (mass-burn) in a water wall refractory combustor to generate electricity for sale.

Emission Point Identifier(s)			
Emission Source / Control Identifier(s)			
00004	00005	00006	00008

Supporting Documentation

- [ ] Aerial Photo (___ / ___ / _____)
- [ ] Air Quality Model (___ / ___ / _____)
- [ ] Air State Facility Permit (___ / ___ / _____)
- [ ] Air Title V Facility Permit (___ / ___ / _____)
- [ ] Alternative Fuel Monitoring Schedule (___ / ___ / _____)
- [ ] Ambient Air Monitoring Plan (___ / ___ / _____)
- [ ] Analysis of Contemporaneous Emission Increase/Decrease (___ / ___ / _____)
- [ ] Article 11, Title 5 Permit for Interference with Fish & Wildlife (___ / ___ / _____)
- [ ] Authorized Agent Letter (___ / ___ / _____)
- [ ] BACT Demonstration (___ / ___ / _____)
- [ ] Baseline Period Demonstration (___ / ___ / _____)
- [ ] Beneficial Use Determination (BUD) (___ / ___ / _____)
- [ ] Blasting Chart - Ground Vibration Limits (___ / ___ / _____)
- [ ] Building Identification Table (___ / ___ / _____)
- [X] Calculations (___ / ___ / _____)
- [ ] Capping Letter/Package (___ / ___ / _____)
- [ ] Certificate of Capacity (Resource Recovery Facility) (___ / ___ / _____)
- [ ] CLCPA analysis (___ / ___ / _____)
- [ ] Compliance Assurance Monitoring Plan (CAM) (___ / ___ / _____)
- [ ] Confidentiality Justification (___ / ___ / _____)
- [ ] Construction and Demolition Debris Tracking Document (___ / ___ / _____)
- [ ] Construction Detail Drawings (___ / ___ / _____)
- [ ] Continuous Emissions Monitoring Plans/QA/QC (___ / ___ / _____)
- [ ] Control Equipment Layout (___ / ___ / _____)
- [ ] Custom Schedule for Fuel Nitrogen and Sulfur Monitoring (___ / ___ / _____)
- [ ] Dispersion modeling (___ / ___ / _____)
- [ ] Drawings/Blueprints (___ / ___ / _____)
- [ ] Elevations/Sections (___ / ___ / _____)
- [ ] Emission Inventory Report (___ / ___ / _____)
- [ ] Emission Survey (___ / ___ / _____)
- [ ] Emission Unit Summary (___ / ___ / _____)
- [ ] EPA Memo Re: Technical Infeasibility of Monitoring Nitrogen in Fuel (___ / ___ / _____)
- [ ] Episode Action Plan (___ / ___ / _____)
- [ ] Equipment Manufacturers Information (___ / ___ / _____)
- [ ] ERC Quantification (___ / ___ / _____)
- [ ] Exemption Related Document (___ / ___ / _____)
- [ ] Existing Certificates to Operate and/or Permits to Construct (___ / ___ / _____)
- [ ] Existing Consent Order (___ / ___ / _____)
- [ ] Existing Methane Migration & Recovery Well Plan (___ / ___ / _____)
- [ ] Existing Permit Figures (___ / ___ / _____)
- [ ] Facility Location Map (___ / ___ / _____)
- [ ] Facility-Wide Operating Permit Submittal Schedule (___ / ___ / _____)
- [ ] Fugitive Dust Control Plan (___ / ___ / _____)
- [ ] General Flow Diagram (___ / ___ / _____)
- [ ] Generating Plant Site & Section Sheet (___ / ___ / _____)

DEC ID: 5534400001 **Application ID:** 553440000100016 **Renewal Number: 5**

Facility: WHEELABRATOR HUDSON FALLS

Mar 29, 2024 10:40 am

Supporting Documentation

- [ ] LAER Demonstration (___ / ___ / _____)
- [ ] Letter of Intent to Commence Work (___ / ___ / _____)
- [X] List of Exempt Activities (form attached) (___ / ___ / _____)
- [ ] MACT Demonstration (___ / ___ / _____)
- [X] Methods Used To Determine Compliance (form attached) (___ / ___ / _____)
- [ ] Miscellaneous Attachments - Not Otherwise Specified (___ / ___ / _____)
- [ ] Miscellaneous Correspondence (___ / ___ / _____)
- [ ] Mitigation Planting Plan (___ / ___ / _____)
- [ ] MSDS Information Sheets (___ / ___ / _____)
- [ ] Non-CEM: Custom Monitoring, Recordkeeping and/or Reporting Plan (___ / ___ / _____)
- [ ] Notice Covenant (___ / ___ / _____)
- [ ] Notice of Intent to Commence Work (___ / ___ / _____)
- [ ] NOx RACT Compliance Plan (___ / ___ / _____)
- [ ] NOx RACT Operating Plan (___ / ___ / _____)
- [ ] Opacity Compliance Plan (___ / ___ / _____)
- [ ] Operational Flexibility:Desc of Alternative Operating Scenarios and Protocols (___ / ___ / _____)
- [X] P.E. Certification (form attached) (___ / ___ / _____)
- [ ] Permit Sign (___ / ___ / _____)
- [ ] Pesticide Treatment Area Map (___ / ___ / _____)
- [ ] Photograph(s) (___ / ___ / _____)
- [ ] Plot Plan (___ / ___ / _____)
- [ ] Process Flow Diagram(s) (___ / ___ / _____)
- [ ] Process Material Specification Data (___ / ___ / _____)
- [ ] Process Operation Log Sheet(s) (___ / ___ / _____)
- [X] Project Location Map (___ / ___ / _____)
- [ ] PSD Permit Correlation Tables (___ / ___ / _____)
- [ ] RACT Demonstration (___ / ___ / _____)
- [ ] Regulatory Analysis Summary (___ / ___ / _____)
- [ ] Results of SEQR Review (___ / ___ / _____)
- [ ] Seed Mixture Recommendations (___ / ___ / _____)
- [ ] Short Environmental Assessment Form (___ / ___ / _____)
- [ ] Site Plan (___ / ___ / _____)
- [ ] Solid Waste Annual Report Form (___ / ___ / _____)
- [ ] SPDES Permit (___ / ___ / _____)
- [ ] Stack Test Protocols/Reports (___ / ___ / _____)
- [ ] Title IV Acid Rain Permit Application (___ / ___ / _____)
- [ ] Transfer Form (___ / ___ / _____)
- [ ] VOC RACT Compliance Plan (___ / ___ / _____)
- [ ] Wood Waste Specifications (___ / ___ / _____)
- [ ] WQC - Basis for Conditions (___ / ___ / _____)

Attachment C

List of Exempt Activities

New York State Department of Environmental Conservation
Air Permit Application

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

DEC ID
5 - 5 3 4 4 - 0 0 0 0 1

Date of Form
May 2024

List of Exempt Activities

Instructions

Applicants for Title V facility permits must provide a listing of each exempt activity, as described in 6 NYCRR Part 201-3.2(c), that is currently operated at the facility. This form must be provided with each application for a new Title V facility permit and Title V facility permit renewal, or whenever changes are necessary. In order to complete this form, enter the number and building location of each exempt activity conducted. Building IDs used on this form should match those used in the Title V permit application. Provide all additional information where requested. If a listed activity is not operated at the facility, leave the corresponding information blank.

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
	Combustion		
(1)	Stationary or portable combustion installations where the furnace has a maximum rated heat input capacity less than 10 MMBtu/hr burning liquid or gaseous fuels; or a maximum heat input capacity of less than 1 MMBtu/hr burning solid fuels. This activity does not include combustion installations burning any material classified as solid waste, as defined in 6 NYCRR Part 360, hazardous waste, as defined in 6 NYCRR Part 371, or waste oil, as defined in 6 NYCRR Subpart 225-2. **For each activity listed, attach documentation indicating the date of construction, heat input (MMBtu/hr), and the type of fuel combusted.**	12	10 at Boiler Bldg., 2 at Water Treat Bldg.
(2)	Space heaters burning waste oil at eligible facilities, as defined in 6 NYCRR Subpart 225-2, generated on-site or at a facility under common control, alone or in conjunction with used oil generated by a do-it-yourself oil changer as described in 6 NYCRR Subpart 374-2.	0	
(3)(i)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located within the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 200 brake horsepower. **For each activity listed, attach documentation indicating the date of construction, engine model year, engine rating (hp), displacement (L/cylinder), type of fuel combusted, and EPA issued certificate of conformity.**	0	

DEC ID
5-534400001

Date of Form
May 2024

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(3)(ii)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 400 brake horsepower. **For each activity listed, attach documentation indicating the date of construction, engine model year, engine rating (hp), displacement (L/cylinder), type of fuel combusted, and EPA issued certificate of conformity.**	1	Fire Pump Room
(3)(iii)	Stationary or portable internal combustion engines that are gasoline powered and have a maximum mechanical power rating of less than 50 brake horsepower.	0	
(4)	Reserved.		
(5)	Gas turbines with a heat input at peak load less then 10 MMBtu/hour	0	
(6)	Emergency power generating stationary internal combustion engines, as defined in 6 NYCRR Part 200.1(cq). Stationary internal combustion engines used for peak shaving and/or demand response programs are not exempt. **For each activity listed, attach documentation indicating the date of construction, engine model year, engine rating (hp), displacement (L/cylinder), type of fuel combusted, and EPA issued certificate of conformity.**	0	
Combustion Related			
(7)	Non-contact water cooling towers and water treatment systems for process cooling water and other water containers designed to cool, store or otherwise handle water that has not been in direct contact with gaseous or liquid process streams.	0	
Agricultural			
(8)	Feed and grain milling, cleaning, conveying, drying and storage operations including grain storage silos, where such silos exhaust to an appropriate emissions control device, excluding grain terminal elevators with permanent storage capacities over 2.5 million U.S. bushels, and grain storage elevators with capacities above one million bushels.	0	

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(9)	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.	0	
Commercial - Food Service Industries			
(10)	Flour silos at bakeries, provided all such silos are exhausted through an appropriate emission control device.	0	
(11)	Emissions from flavorings added to a food product where such flavors are manually added to the product.	0	
Commercial - Graphic Arts			
(12)	Screen printing inks/coatings or adhesives which are applied by a hand-held squeegee. A hand-held squeegee is one that is not propelled though the use of mechanical conveyance and is not an integral part of the screen printing process.	0	
(13)	Graphic arts processes at facilities located outside the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury whose facility-wide total emissions of volatile organic compounds from inks, coatings, adhesives, fountain solutions and cleaning solutions are less than three tons during any 12-month period.	0	
(14)	Graphic label and/or box labeling operations where the inks are applied by stamping or rolling.	0	
(15)	Graphic arts processes which are specifically exempted from regulation under 6 NYCRR Part 234, with respect to emissions of volatile organic compounds which are not given an A rating as described in 6 NYCRR Part 212.	0	
Commercial - Other			
(16)	Gasoline dispensing sites registered with the department pursuant to 6 NYCRR Part 613.	0	

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5-534-400001

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(17)	Surface coating and related activities at facilities which use less than 25 gallons per month of total coating materials, or with actual volatile organic compound emissions of 1,000 pounds or less from coating materials in any 12-month period. Coating materials include all paints and paint components, other materials mixed with paints prior to application, and cleaning solvents, combined. This exemption is subject to the following: (i) The facility is located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury; and (ii) All abrasive cleaning and surface coating operations are performed in an enclosed building where such operations are exhausted into appropriate emission control devices.	0	
(18)	Abrasive cleaning operations which exhaust to an appropriate emission control device.	0	
(19)	Ultraviolet curing operations.	0	
	Municipal/Public Health Related		
(20)	Landfill gas ventilating systems at landfills with design capacities less than 2.5 million megagrams (3.3 million tons) and 2.5 million cubic meters (2.75 million cubic yards), where the systems are vented directly to the atmosphere, and the ventilating system has been required by, and is operating under, the conditions of a valid 6 NYCRR Part 360 permit, or order on consent.	0	
	Storage Vessels		
(21)	Distillate fuel oil, residual fuel oil, and biodiesel storage tanks with storage capacities below 300,000 barrels.	0	
(22)	Pressurized fixed roof tanks which are capable of maintaining a working pressure at all times to prevent emissions of volatile organic compounds to the outdoor atmosphere.	0	
(23)	External floating roof tanks which are of welded construction and are equipped with a metallic-type shoe primary seal and a secondary seal from the top of the shoe seal to the tank wall.	0	

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5-534400001

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(24)	External floating roof tanks which are used for the storage of a petroleum or volatile organic liquid with a true vapor pressure less than 4.0 psi (27.6 kPa), are of welded construction and are equipped with one of the following: (i) a metallic-type shoe seal; (ii) a liquid-mounted foam seal; (iii) a liquid-mounted liquid-filled type seal; or (iv) equivalent control equipment or device.	0	
(25)	Storage tanks, including petroleum liquid storage tanks as defined in 6 NYCRR Part 229, and liquid asphalt storage tanks with capacities less than 10,000 gallons, except those subject to 6 NYCRR Part 229 or Part 233.	0	
(26)	Horizontal petroleum or volatile organic liquid storage tanks. 2 Diesel, 1 Kerosene	3	Outside
(27)	Storage of solid materials, provided all such storage is exhausted through an appropriate emission control device. This exemption does not include raw material, clinker, or finished product storage at Portland cement plants.	2	Outside
Industrial			
(28)	Processing equipment at existing sand and gravel and stone crushing plants which were installed or constructed before August 31, 1983, where water is used for operations such as wet conveying, separating, and washing. This exemption does not include processing equipment at existing sand and gravel and stone crushing plants where water is used for dust suppression.	0	
(29)(i)	Sand and gravel, crushed stone, concrete, or recycled asphalt processing lines at non-metallic mineral processing facilities that are a permanent or fixed installation with a maximum rated processing capacity of 25 tons of minerals per hour or less.	0	
(29)(ii)	Sand and gravel, crushed stone, concrete, or recycled asphalt processing lines at non-metallic mineral processing facilities that are a portable emission source with a maximum rated processing capacity of 150 tons of minerals per hour or less.	0	

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(29)(iii)	Sand and gravel, crushed stone, concrete, or recycled asphalt processing lines at non-metallic mineral processing facilities that are used exclusively to screen minerals at a facility where no crushing or grinding takes place.	0	
(30)	Reserved.		
(31)	Surface coating operations which are specifically exempted from regulation under 6 NYCRR Subparts 228-1 and 228-2, with respect to emissions of volatile organic compounds which are not given an A rating pursuant to 6 NYCRR Part 212.	0	
(32)	Pharmaceutical tablet branding operations.	0	
(33)	Thermal packaging operations, including, but not limited to, therimage labeling, blister packing, shrink wrapping, shrink banding, and carton gluing.	0	
(34)	Powder coating operations.	0	
(35)	All tumblers used for the cleaning and/or deburring of metal products without abrasive blasting.	0	
(36)	Presses used exclusively for molding or extruding plastics except where halogenated polymers are used or where halogenated carbon compounds or hydrocarbon solvents are used as foaming agents.	0	
(37)	Concrete batch plants where the cement weigh hopper and all bulk storage silos are exhausted through fabric filters, and the batch drop point is controlled by a shroud or other emission control device.	0	
(38)	Cement storage operations not located at Portland cement plants where materials are transported by screw or bucket conveyors.	0	
(39)(i)	Cold cleaning degreasers with an open surface area of 11 square feet or less and an internal volume of 93 gallons or less or, having an organic solvent loss of 3 gallons per day or less.	0	
39(ii)	Conveyorized degreasers with an air/vapor interface smaller than 22 square feet (2 square meters), unless subject to the requirements of 40 CFR 63 Subpart T.	0	
(39)(iii)	Open-top vapor degreasers with an open-top area smaller than 11 square feet (1.0 square meter), unless subject to the requirements in 40 CFR 63, Subpart T.	0	
Miscellaneous			
(40)	Ventilating and exhaust systems for laboratory operations. This exemption does not include laboratory operations used to produce products for sale except in a de minimis manner.	1	Boiler Bldg.

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Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(41)	Exhaust or ventilating systems for the melting of gold, silver, platinum and other precious metals.	0	
(42)	Exhaust systems for paint mixing, transfer, filling or sampling and/or paint storage rooms or cabinets, provided the paints stored within these locations are stored in closed containers when not in use.	1	Boiler Bldg.
(43)	Exhaust systems for solvent transfer, filling or sampling, and/or solvent storage rooms provided the solvents are stored in closed containers when not in use.	0	
(44)	Reserved		
(45)	The application of odor counteractants and/or neutralizers.	1	Boiler Bldg.
(46)	Hydrogen, natural gas, and methane fuel cells.	0	
(47)	Dry cleaning equipment that uses only water-based cleaning processes or those using liquid carbon dioxide.	0	
(48)	Manure spreading, handling and storage at farms and agricultural facilities.	0	
(49)	Covered manure storage at farms that exhausts to a flare or other appropriate emission control device. This activity does not include anaerobic digestion processes operating with or without stationary or portable combustion installations.	0	
(50)	Coffee roasting processes which have a maximum operating capacity of 3 kilograms or less of green coffee beans per batch and no greater than 25 tons of green coffee beans per year, that are vented through an unobstructed, vertical stack that ensures proper dispersion of air contaminants.	0	
(51)	Process emission sources at breweries with total combined beer and/or malt liquor production of 60,000 barrels per year or less.	0	
(52)	Process emission sources at wineries with total combined wine and/or brandy production of 700,000 gallons per year or less.	0	
(53)	Process emission sources at distilleries with 10,000 distiller's bushels of grain input per year or less.	0	
(54)	Process emission sources at wood and lumber drying kilns with an annual throughput of untreated wood of 275,000 board feet or less.	0	

Attachment D

Methods Used to Determine Compliance

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Methods Used to Determine Compliance

Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance	Compliance Date
U-00001 U-00002	6 NYCRR 231-2	The maximum annual potential (MAP) for NOx is 162 tons per year for each emission unit, and based on the maximum allowable concentration of 205 ppm (dry, corrected to 7% O2) of NOx and an hourly design stack flow rate of 25,167 dscf (corrected to 7% oxygen). The facility has not requested a modification to the MAP as these allowable criteria are unchanged.	
U-00001 U-00002	40 CFR 52.21(j)(2)	Nitrogen oxide emissions shall not exceed 372 ppmvd at 7% O2 (1-hour average). Nitrogen oxide emissions shall be measured continuously by CEMS. Monitoring data shall be reported semi-annually to NYSDEC.	
U-00001 U-00002	40 CFR 60.13(a)	Continuous monitoring systems for measuring opacity complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. Continuous monitoring systems for measuring emissions other than opacity complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.	
U-00001 U-00002	40 CFR 60.33b(a)(1)(i)	Particulate emissions shall not exceed 25 mg/dscm at 7% O2. There is an additional stack limit of 0.1 lb/MMBtu required under 40 CFR 52.21(j)(2). Stack testing shall be conducted annually to measure particulate emissions in accordance with EPA Method 5. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	40 CFR 60.33b(a)(1)(iii)	Visible emissions shall not exceed 10% opacity (6-minute average). Opacity shall be measured continuously by COMS. Monitoring data shall be reported semi-annually to NYSDEC.	
U-00001 U-00002	40 CFR 60.33b(a)(2)(i)	Cadmium emissions shall not exceed 35 ug/dscm at 7% O2. Stack testing shall be conducted annually to measure cadmium emissions in accordance with EPA Method 29. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	40 CFR 60.33b(a)(3)	Mercury emissions shall not exceed 50 ug/dscm at 7% O2 or 85% reduction by weight, whichever is less stringent. Stack testing shall be conducted annually to measure mercury emissions in accordance with Method 29. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	40 CFR 60.33b(a)(4)	Emissions of lead shall not exceed 400 micrograms per dry standard cubic meter, corrected to 7 percent oxygen. Stack testing shall be conducted annually to measure lead emissions in accordance with Method 29. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	40 CFR 60.33b(b)(3)(i)	Each MWC unit is required to meet the less stringent of either of the following: an emission limit for sulfur dioxide not to exceed 29 parts per million by volume or 25 percent of the potential sulfur dioxide emission concentration (75-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis). Compliance with these limits is based on a 24-hour daily geometric mean. To demonstrate compliance with the emission limit the owner or operator of the facility shall install, calibrate, maintain and and operate a continuous emissions monitor for sulfur dioxide.	
U-00001 U-00002	40 CFR 60.33b(b)(3)(ii)	Each MWC unit is required to meet the less stringent of either of the following: an emission limit for hydrogen chloride not to exceed 29 parts per million by volume, corrected to 7 percent oxygen (dry basis) or, a 95 percent reduction by weight or volume of the potential hydrogen chloride emission concentration. Compliance with the latter (percent reduction) limit will be determined by conducting an annual stack emission test in accordance with EPA Method 26/26A. Reporting shall be done in accordance with 40 CFR 60.39b, as applicable.	

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Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance	Compliance Date
U-00001 U-00002	40 CFR 60.33b(c)(1)(ii)	Each MWC unit which employs an electrostatic precipitator for emission controls is required to meet an emission concentration limit for dioxin/furan not to exceed 35 nanograms per dry standard cubic meter (total mass), corrected to 7 percent oxygen. Compliance with the limit will be determined by conducting an annual stack test in accordance with EPA Method 23. Reporting shall be done in accordance with 40 CFR 60.39b, as applicable.	
U-00001 U-00002	40 CFR 60.34b(a)	Carbon monoxide emissions shall not exceed 100 ppmvd at 7% O2 (4-hour block average). In addition, the source owner or operator shall not exceed, 6NYCRR 617.11(d)(5), minimum combustion index (CI) requirements of 99.5% and 99.8% based on 8-hour and 7-day running averages, respectively. Compliance with the 100 ppm CO limit also serves to demonstrate compliance with these CI limits. Carbon monoxide emissions shall be measured continuously by CEMS. Monitoring data shall be reported semi-annually to NYSDEC.	
U-00001 U-00002	40 CFR 60.35b	A site-specific operating manual will be developed and updated on a yearly basis that must, at a minimum, address the elements of the MWC unit operation specified within the condition.	
U-00001 U-00002	40 CFR 60.35b	All chief facility operators, shift supervisors, and control room operators must complete a municipal waste combustor operator training course which is acceptable to the Department prior to the date they assume responsibilities that affect operation of the municipal waste combustor unit.	
U-00001 U-00002	40 CFR 60.36b	The discharge of visible emissions from the ash conveying system shall not exceed 5% of the observation period (i.e., 9 minutes per 3-hour period). Visible emission testing shall be conducted as required in accordance with Method 22. Test data shall be reported semi-annually to NYSDEC.	
U-00001 U-00002	40 CFR 60.38b	If the MWC achieves a dioxin/furan emission level less than or equal to 15 nanograms per dry standard cubic meter total mass, corrected to 7 percent oxygen, the alternative performance testing schedule for dioxins/furans specified in 40 CFR 60.58b(g)(5)(iii) may be used.	
U-00001 U-00002	40 CFR 60.58b	During the performance tests for dioxins/furans and mercury, as applicable, the owner or operator shall estimate an average carbon mass feed rate based on carbon injection system operating parameters such as the screw feeder speed, hopper volume, hopper refill frequency, or other parameters appropriate to the feed system being employed. An average carbon mass feed rate in kilograms or pounds per hour shall be estimated during the initial performance test and each subsequent performance test.	
U-00001 U-00002	40 CFR 60.58b	The owner or operator of an affected facility shall estimate the total carbon usage of the plant (kilograms or pounds) for each calendar quarter by two independent methods, according to the procedures in paragraphs (m)(3)(i) and (m)(3)(ii). Pneumatic injection pressure or other carbon injection system operational indicator shall be used to provide additional verification of proper carbon injection system operation.	
U-00001 U-00002	40 CFR 60.58b	The carbon feeder screw speed (rpm), which is the primary indicator of the carbon mass feed rate will be monitored to show it equals or exceeds the level documented during the performance test (based on an 8-hour block average) specified under paragraphs (m)(1)(i) of this section or the corrected screw feeder speed obtained during periodic calibration.	
U-00001 U-00002	40 CFR 60.34b(b)	Each MWC unit shall not be operated at a steam load level exceeding 110 percent of the maximum demonstrated municipal waste combustor unit load (highest 4-hour block arithmetic average unit steam load, measured in pounds per hour) reached during the most recent performance test where compliance with the dioxin/furan emission limit was demonstrated).	

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Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance	Compliance Date
U-00001 U-00002	40 CFR 60.34b(b)	Each MWC unit will be operated at a temperature not to exceed 17C above the maximum demonstrated particulate matter control device temperature, as measured at the particulate matter control device inlet, during four consecutive hours (4-hour block arithmetic average) determined at the most recent dioxin/furan performance test demonstrating compliance with the applicable dioxin/furan limit.	
U-00001 U-00002	40 CFR 60.33b(d)	Nitrogen oxide emissions shall not exceed 205 ppmvd at 7% O2 (24-hour daily average). Nitrogen oxide emissions shall be measured continuously by CEMS. Monitoring data shall be reported semi-annually to NYSDEC.	
U-00001 U-00002	6 NYCRR 219-7.2	The carbon feeder screw speed (rpm), which is the primary indicator of the carbon mass feed rate will be monitored to show it equals or exceeds the level documented during the performance test (based on an 8-hour block average) or the corrected speed obtained during periodic calibration.	
U-00001 U-00002	6 NYCRR 219-7.2	Mercury emissions shall not exceed 28 ug/dscm at 7% O2 or 85% reduction by weight, whichever is less stringent. Stack testing shall be conducted to measure emissions in accordance with Method 29. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	Polycyclic aromatic hydrocarbons (PAH), benzo(a) pyrene (BaP), and polychlorinated biphenyls (PCB) emissions shall not exceed the following: PAH: 0.0085 lb/hr, BaP: 0.00085 lb/hr, PCB: 0.000213 lb/hr. Stack testing shall be conducted upon request of NYSDEC to measure PAH, BaP and PCB in accordance with EPA Method 23. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	Volatile organic compound (VOC) emissions shall not exceed 4.5 lb/hr. Stack testing shall be conducted upon request of NYSDEC to measure VOC emissions in accordance with EPA Method 25A. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	Sulfuric acid emissions shall not exceed 1.42 lb/hr. Stack testing shall be conducted upon request of NYSDEC to measure sulfuric acid emissions in accordance with EPA Method 8. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	Hydrogen fluoride emissions shall not exceed 0.04 lb/hr. Stack testing shall be conducted upon request of NYSDEC to measure hydrogen fluoride emissions in accordance with EPA Method 26A. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	Total PCDD and PCDF emission (tetra-through octa-homologue groups, as well as 2,3,7,8 substituted congeners) shall not exceed 9.0 ng/dscm at 7% O2, expressed in terms of 2,3,7,8-TCDD Toxic Equivalents (using 1989 EPA Toxic Equivalency Factors). Stack testing shall be conducted upon request of NYSDEC to measure total PCDD and PCDF emissions in accordance with EPA Method 23. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	Formaldehyde emissions shall not exceed 0.762 lb/hr. Stack testing shall be conducted upon request of NYSDEC to measure hydrogen fluoride emissions in accordance with P&CAM 125. Stack test data shall be reported to NYSDEC.	

New York State Department of Environmental Conservation
Air Permit Application

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

DEC ID
5-5344-00001

Methods Used to Determine Compliance

Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance	Compliance Date
U-00001 U-00002	6 NYCRR 617.11(d)(5)	Chromium(VI) emissions shall not exceed 0.002 lb/hr. Stack testing shall be conducted upon request of NYSDEC to measure chromium(VI) emissions in accordance with SW-846-0013. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	Trace metal emissions shall not exceed the following: Arsenic: 0.00125 lb/hr; Barium: 0.005 lb/hr; Beryllium: 0.00000465 lb/hr; Chromium: 0.065 lb/hr; Cobalt: 0.003 lb/hr; Copper: 0.0085 lb/hr; Manganese: 0.03 lb/hr; Nickel: 0.115 lb/hr; Selenium: 0.001 lb/hr; Vanadium: 0.000342 lb/hr; Zinc: 0.75 lb/hr. Stack testing shall be conducted upon NYSDEC request to measure the required metals in accordance with Method 29. Stack test data shall be reported to NYSDEC.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	The Permittee must maintain a surrogate temp. of 1100 F or greater, based on a running 15 minute avg. of readings, recorded at each incinerator's approved permanent thermocouple location. This surrogate will demonstrate compliance with requirement to maintain a 1500 F or higher temp. after last point of overfire air.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	The auxiliary burner installed in each MWC unit shall be used to achieve a min. temp of 1500 F after the last point of overfire air prior to commencing waste feed. Compliance will be demonstrated by measuring surrogate temp. of 1100 F or higher at the incinerator's approved permanent thermocouple location.	
U-00001 U-00002	6 NYCRR 617.11(d)(5)	Each municipal waste combustor shall not exceed 70,000 lb/hr of steam production (24-hour rolling average). The steam production rate shall be monitored continuously and will be reported quarterly to NYSDEC.	
Facility	40 CFR 63 Subpart ZZZZ	Records of maintenance conducted in order to demonstrate operation and maintenance of the engine and after-treatment control device (if any) are in accordance with the manufacturer's emission-related operation and maintenance instructions or the facility maintenance plan.	
Facility	40 CFR 63 Subpart ZZZZ	Records of the hours of operation of the engine from the non-resettable hour meter must be maintained, as follows: (1) Hours for emergency operation of the engine, including what classified the operation as emergency; (2) Hours for non-emergency operation of the engine including the purpose of non-emergency operating hours; and (3) If the engine is used for demand response operation, keep records of the notification of the emergency situation, and the time the engine was operated as part of a demand response.	