



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 1-4728-00185/00012
Effective Date:

Expiration Date:

Permit Issued To: ISLIP RESOURCE RECOVERY AGENCY
401 MAIN ST
ISLIP, NY 11751

Contact: JAMES H HEIL
ISLIP RESOURCE RECOVERY AGENCY
401 MAIN ST RM 302
ISLIP, NY 11751
(631) 224-5645

Facility: MACARTHUR RESOURCE RECOVERY FACILITY
4001 VETERANS MEMORIAL HWY
RONKONKOMA, NY 11779

Contact: ANTHONY VARRICHIO
ISLIP RESOURCE RECOVERY AGENCY
401 MAIN ST
ISLIP, NY 11751
(631) 244-5644

Description:
TV Permit Renewal Application

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: ROGER EVANS
NYSDEC - REGION 1 SUNY @ STONY BROOK
50 CIRCLE RD
STONY BROOK, NY 11790-3409

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
- Applications for permit renewals, modifications and transfers
- Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal -
REGION 1 HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by



the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal - REGION 1 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 1 Headquarters
Division of Environmental Permits
Stony Brook University
50 Circle Road
Stony Brook, NY 11790-3409
(631) 444-0365

New York State Department of Environmental Conservation

Permit ID: 1-4728-00185/00012

Facility DEC ID: 1472800185



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

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401 MAIN ST
ISLIP, NY 11751

Facility: MACARTHUR RESOURCE RECOVERY FACILITY
4001 VETERANS MEMORIAL HWY
RONKONKOMA, NY 11779

Authorized Activity By Standard Industrial Classification Code:
4953 - REFUSE SYSTEMS

Permit Effective Date:

Permit Expiration Date:



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR 200.3: False statement
- 22 6 NYCRR Subpart 201-6: Emission Unit Definition
- 23 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 24 6 NYCRR 202-1.2: Notification
- 25 6 NYCRR 202-1.3: Acceptable procedures
- 26 6 NYCRR 202-1.3: Acceptable procedures - Stack test report submittal
- 27 6 NYCRR 202-1.3: Alternate test methods
- 28 6 NYCRR 202-1.4: Separate emission test by the commissioner
- 29 6 NYCRR 202-1.5: Prohibitions
- 30 6 NYCRR 211.1: Air pollution prohibited
- 31 6 NYCRR 225-1.2 (h): Compliance Certification
- 32 6 NYCRR 225-1.6 (d): Record Availability
- 33 40CFR 60.44b(c), NSPS Subpart Db: Compliance Certification
- 34 40CFR 60, Subpart BBBBB: 40 CFR 60, Subpart BBBBB Conditions
- 35 40CFR 60.1650, Subpart BBBBB: Operator Training Course
- 36 40CFR 60.1655, Subpart BBBBB: Plant Specific Training Course
- 37 40CFR 60.1660, Subpart BBBBB: Plant Specific Training
- 38 40CFR 60.1665, Subpart BBBBB: Information that must be included in the Plant-Specific Operating Manual
- 39 40CFR 60.1670, Subpart BBBBB: Location for keeping the plant specific operating manual
- 40 40CFR 60.1675, Subpart BBBBB: Operator Certification for Chief Facility Operator and Shift Supervisor - Class I MWC Units



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- 41 40CFR 60.1680, Subpart BBBB: Employees that may operate MWC units.
- 42 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 43 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 44 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 45 40CFR 60.1705(a)(3), Subpart BBBB: Compliance Certification

Emission Unit Level

- 46 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 47 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

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- 48 6 NYCRR 219-8.1: Applicability of Subpart 219-8
- 49 6 NYCRR 219-8.3: Compliance Schedules for Class I and Class II small MWC units
- 50 40CFR 60, Subpart BBBB: 40 CFR 60, Subpart BBBB Conditions
- 51 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 52 40CFR 60.1860, Subpart BBBB: Compliance Certification

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- 53 6 NYCRR 200.7: Compliance Certification
- 54 6 NYCRR 201-6.4 (f) (1): Compliance Certification
- 55 6 NYCRR 219-8.1: Applicability of Subpart 219-8
- 56 6 NYCRR 219-8.3: Compliance Schedules for Class I and Class II small MWC units
- 57 40CFR 52.21, Subpart A: Compliance Certification
- 58 40CFR 52.21(j)(2), Subpart A: Compliance Certification
- 59 40CFR 60, Subpart BBBB: 40 CFR 60, Subpart BBBB Conditions
- 60 40CFR 60.1685, Subpart BBBB: Operation of MWC Unit when Certified Operator is Temporarily Off-Site
- 61 40CFR 60.1690, Subpart BBBB: Compliance Certification
- 62 40CFR 60.1690, Subpart BBBB: Compliance Certification
- 63 40CFR 60.1695, Subpart BBBB: Compliance Certification
- 64 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 65 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 66 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 67 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 68 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 69 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 70 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 71 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 72 40CFR 60.1705(a)(1), Subpart BBBB: Compliance Certification
- 73 40CFR 60.1710, Subpart BBBB: Compliance Certification
- 74 40CFR 60.1720, Subpart BBBB: Compliance Certification
- 75 40CFR 60.1730, Subpart BBBB: Compliance Certification
- 76 40CFR 60.1750, Subpart BBBB: Compliance Certification
- 77 40CFR 60.1755, Subpart BBBB: Compliance Certification
- 78 40CFR 60.1760, Subpart BBBB: Compliance Certification
- 79 40CFR 60.1775, Subpart BBBB: Compliance Certification
- 80 40CFR 60.1795(b), Subpart BBBB: Compliance Certification
- 81 40CFR 60.1805, Subpart BBBB: Compliance Certification
- 82 40CFR 60.1830, Subpart BBBB: Compliance Certification
- 83 40CFR 60.1835, Subpart BBBB: Compliance Certification
- 84 40CFR 60.1840, Subpart BBBB: Compliance Certification



- 85 40CFR 60.1845, Subpart BBBBB: Compliance Certification
- 86 40CFR 60.1850, Subpart BBBBB: Compliance Certification
- 87 40CFR 60.1855, Subpart BBBBB: Compliance Certification
- 88 40CFR 60.1860, Subpart BBBBB: Compliance Certification
- 89 40CFR 60.1865, Subpart BBBBB: Compliance Certification
- 90 40CFR 60.1875, Subpart BBBBB: Compliance Certification
- 91 40CFR 60.1880, Subpart BBBBB: Compliance Certification
- 92 40CFR 60.1885, Subpart BBBBB: Compliance Certification
- 93 40CFR 60.1890, Subpart BBBBB: Compliance Certification
- 94 40CFR 60.1895, Subpart BBBBB: Compliance Certification
- 95 40CFR 60.1900, Subpart BBBBB: Compliance Certification
- 96 40CFR 60.1905, Subpart BBBBB: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 97 ECL 19-0301: Contaminant List
- 98 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 99 6 NYCRR 211.2: Visible Emissions Limited

Emission Unit Level

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- 100 6 NYCRR 617.11 (d): Compliance Demonstration



FEDERALLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and



reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (a) (5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item G: Property Rights - 6 NYCRR 201-6.4 (a) (6)

This permit does not convey any property rights of any sort or any exclusive privilege.

Item H: Severability - 6 NYCRR 201-6.4 (a) (9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item I: Permit Shield - 6 NYCRR 201-6.4 (g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;

ii. The liability of a permittee of the Title V



facility for any violation of applicable requirements prior to or at the time of permit issuance;

iii. The applicable requirements of Title IV of the Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item J: Reopening for Cause - 6 NYCRR 201-6.4 (i)

This Title V permit shall be reopened and revised under any of the following circumstances:

i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the department pursuant to the provisions of section 201- 6.6 of this Subpart.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit



contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: Fees
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (7)

Item 2.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-6.4 (c)

Item 3.1:

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii)The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

Condition 4: Records of Monitoring, Sampling, and Measurement
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-6.4 (c) (2)

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all



reports required by the permit.

**Condition 5: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements,



the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual



report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 6: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 201-6.4 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;



and

- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC- Region 1 Headquarters
Stony Brook University
50 Circle Road
Stony Brook, NY 11790-3409

The address for the BQA is as follows:

NYSDEC

New York State Department of Environmental Conservation

Permit ID: 1-4728-00185/00012

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b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:

1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,

2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
C/O CSC
8400 Corporate Dr
Carrollton, Md. 20785

**Condition 20: Recycling and Emissions Reduction
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 82, Subpart F

Item 20.1:

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

The following conditions are subject to annual compliance certification requirements for Title V permits only.

**Condition 21: False statement
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 200.3

Item 21.1:

No person shall make a false statement in connection with applications, plans, specifications and/or reports submitted pursuant to this Subchapter.

**Condition 22: Emission Unit Definition
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 22.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: I-00002

Emission Unit Description:

This Emission Unit involves the ash handling system at the Islip MacArthur Resource Recovery Facility (IMRRF). The particulate emissions from the ash handling system are calculated using stack test data from another facility



with similar operations and engineering judgment to adjust the emission rate for throughput differences. Up to three fans are used to maintain the ash building under negative pressure. Annual emissions are assumed to be evenly distributed among the three fans.

Building(s): ASHBLDG

Item 22.2:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: I-00012

Emission Unit Description:

This Emission Unit consists of two O'connor rotary municipal waste combustor/boiler (MWC) with emission points IBH-1 and IBH-2. Each unit has a nominal design capacity of 242.5 tons per day of MSW per unit. Each combustion train has been retrofitted with a spray dry absorber for acid gas control and carbon injection system as a control device for mercury and dioxins/furans.

If the annual stack test indicates that the dioxins/furans and mercury emissions are within the limits provided in the permit, the permittee may choose at its discretion not to operate the carbon injection system till the next annual testing period. Each unit is also equipped with a fabric filter baghouse for particulate emissions control.

The IMRRF is equipped with continuous emission monitoring system (CEMS) for carbon monoxide, oxides of nitrogen, sulfur dioxide, oxygen, opacity, steam flow, steam temperature, steam pressure, flue gas temperature and baghouse inlet temperature. These provide continuous feedback on the efficiencies of air pollution control equipment.

Each MWC has dual-fuel auxiliary burners which use No. 2 oil, natural gas and Part 225-2 waste fuels. The dual fuel burners are used during start-up, shutdown, malfunction and upset periods to achieve steady state operations of the MWC units.

Building(s): BOILERHS

**Condition 23: Progress Reports Due Semiannually
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 201-6.4 (d) (4)

Item 23.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by



Item 28.1:

The commissioner may conduct separate or additional emission tests on the behalf of the State to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 29: Prohibitions
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-1.5

Item 29.1:

No person shall conceal an emission by the use of air or other gaseous diluents to achieve compliance with an emission standard which is based on the concentration of a contaminant in the gases emitted through a stack.

Condition 30: Air pollution prohibited
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 211.1

Item 30.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 31: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 225-1.2 (h)

Item 31.1:

The Compliance Certification activity will be performed for the Facility.

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installations that fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and



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must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 32: Record Availability
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 225-1.6 (d)

Item 32.1: Facility owners required to maintain and retain records pursuant to this Subpart must make such records available for inspection by the Department.

Condition 33: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.44b(c), NSPS Subpart Db

Item 33.1:
The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 33.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:
The Facility shall be limited to an annual capacity factor, as defined in 40CFR60.41b, for No. 2 fuel oil, natural gas (NG) and Part 225-2 waste fuels in the auxiliary burners, of less than 10 percent. Total amount of No. 2 fuel oil, NG burned and Part 225-2 waste fuels combined in both units (Emission Points 01BG1 and 01BH2) shall not exceed a

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heating value of 211,817 MMBtu per year rolled monthly basis.

Compliance shall be based on the monthly fuel usage records. The High Heating Values for No. 2 fuel oil and natural gas are 139,000 British Thermal units per gallon and 1000 British Thermal units per cubic feet respectively.

Parameter Monitored: HEAT INPUT

Upper Permit Limit: 211817 million British thermal units per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 34: 40 CFR 60, Subpart BBBB Conditions
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60, Subpart BBBB

Item 34.1:

The Permittee shall comply with all 40 CFR 60, Subpart BBBB permit conditions contained herein, in accordance with the applicable Class I or Class II compliance schedule provided in 6 NYCRR Subpart 219-8.3.

**Condition 35: Operator Training Course
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.1650, Subpart BBBB

Item 35.1:

(a) 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 by the later of the following two dates:

- (1) Six months after any MWC unit begins start-up following modification to comply with the requirements of Subpart BBBB,
- (2) The date before an employee assumes responsibilities that affect operation of any MWC unit.

(b) This condition does not apply to chief facility operators, shift supervisors, and control room operators who have obtained full certification from the American Society of Mechanical Engineers on or before May 12, 2003. The owner or operator may request that the Department waive the requirements of this condition for chief facility operators, shift supervisors, and control room operators who have obtained provisional certification from the American Society of Mechanical Engineers on or before May 12, 2003.



Condition 36: Plant Specific Training Course
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1655, Subpart BBBB

Item 36.1:

All employees with responsibilities that affect how a MWC unit operates must complete a plant-specific training course. This would include at a minimum all Chief facility operators, Shift supervisors, Control room operators, Ash handlers, Maintenance personnel and Crane or load handlers.

Condition 37: Plant Specific Training
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1660, Subpart BBBB

Item 37.1:

For plant-specific training, permittee must do four things:

after any (a) Develop a specific operating manual for the MWC plant within six months
of MWC unit begins start-up following modification to comply with the requirements
of 40 CFR 60, Subpart BBBB.

whose (b) Establish a program to review the plant-specific operating manual with staff
by responsibilities affect the operation of any MWC unit. Complete the initial review
the later of two dates:

modification to (1) Six months after any MWC unit begins start-up following
comply with the requirements of 40 CFR 60, Subpart BBBB.

operation (2) The date before an employee assumes responsibilities that affect
of any MWC unit.

(c) Manual must be updated annually.

(d) Manual must be reviewed with staff annually.

Condition 38: Information that must be included in the Plant-Specific
Operating Manual
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1665, Subpart BBBB

Item 38.1:

Permittee must include the following 11 items in the plant-specific operating manual:

(a) A summary of all applicable 40 CFR 60, Subpart BBBB requirements.



- (b) A description of the basic combustion principles that apply to MWC units.
- (c) Procedures for receiving, handling, and feeding municipal solid waste.
- (d) Procedures to be followed during periods of startup, shutdown, and malfunction of any MWC unit.
- (e) Procedures for maintaining a proper level of combustion air supply.
- (f) Procedures for operating MWC unit(s) in compliance with the requirements contained in 40 CFR 60, Subpart BBBBB.
- (g) Procedures for responding to periodic upset or off-specification conditions.
- (h) Procedures for minimizing carryover of particulate matter.
- (i) Procedures for handling ash.
- (j) Procedures for monitoring emissions from MWC unit(s).
- (k) Procedures for recordkeeping and reporting.

Condition 39: Location for keeping the plant specific operating manual Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1670, Subpart BBBBB

Item 39.1:

The operating manual must be kept in an easily accessible location at the plant. It must be available for review or inspection by all employees who are required to undergo plant-specific training, and by the Department upon request.

Condition 40: Operator Certification for Chief Facility Operator and Shift Supervisor - Class I MWC Units Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1675, Subpart BBBBB

Item 40.1:

- (a) Each chief facility operator and shift supervisor must obtain and keep a current provisional operator certification from the American Society of Mechanical Engineers (QRO-1-1994).
- (b) Each chief facility operator and shift supervisor must obtain a provisional certification by the later of :
 - (1) Six months after any MWC unit begins start-up following modification to comply with the requirements of 40 CFR 60, Subpart BBBBB.



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hired to (2) Six months after they transfer to any MWC unit or 6 months after they are work at any MWC unit.

(c) Each chief facility operator and shift supervisor must obtain a full certification from the American Society of Mechanical Engineers or schedule a full certification exam with the American Society of Mechanical Engineers (QRO-1-1994) by the later of :

comply (1) Six months after any MWC unit begins start-up following modification to work at any MWC unit.

hired to (2) Six months after they transfer to any MWC unit or 6 months after they are work at any MWC unit.

Condition 41: Employees that may operate MWC units. Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1680, Subpart BBBB

Item 41.1: Following the required date provided in 40 CFR 60.1675 for full or provisional operator certification, Permittee must not operate any MWC unit unless one of the following four employees is on duty:

- (1) A fully certified chief facility operator.
- full (2) A provisionally certified chief facility operator who is scheduled to take the certification exam.
- (3) A fully certified shift supervisor.
- certification (4) A provisionally certified shift supervisor who is scheduled to take the full exam.

Condition 42: Compliance Certification Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1705(a)(1), Subpart BBBB

Item 42.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: I-00012

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE



Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1705(a)(1), Subpart BBBB

Item 43.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: I-00012

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Sulfur dioxide emissions from each MWC unit shall meet the less stringent of 75 percent reduction by weight or volume, dry corrected to 7% oxygen, or the concentration based sulfur dioxide emission limit provided in this permit. Initial compliance shall be conducted no later than June 4, 2006. Thereafter, compliance is based on a 24-hour daily block (geometric average) using a sulfur dioxide continuous emission monitoring system. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

For CEMS block averages greater than 1-hour (such as 4-hour and 24-hour blocks), 75% of the 1-hour averages must be valid in order to have a valid block average. Block averages with less than 75% of valid 1-hour averages would be partial blocks that would not be used for compliance but would be reported in the quarterly excess emissions report along with the date, time period, and reason.

A partial block period could result during any block, other than the 1-hour period, that does not have solid waste continuously burning due to startup or shutdown or the unit being off line or the continuous emission monitoring being down (i.e., cylinder gas audit, etc.) for part of the block period. The exemption of data use under the Emission Guidelines (40 CFR 60.58B(a)(1)) may also create a partial block. Emission standards or permit limitations applicable to block periods are not applicable to the partial block periods. All partial block periods and the reason for the partial block period must be reported in the quarterly excess emissions report.

Manufacturer Name/Model Number: ALTECH 9000



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Parameter Monitored: SULFUR DIOXIDE

Lower Permit Limit: 75 percent reduction by weight or volume (corrected to 7% O₂, dry basis)

Reference Test Method: 40 CFR 60 APP B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY BLOCK (GEOMETRIC AVERAGE)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 44: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1705(a)(1), Subpart BBBBB

Item 44.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: I-00012

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Nitrogen oxides emission limit for mass burn rotary waterwall Class I small MWC plants.

Nitrogen oxides emissions from each MWC unit shall not exceed 170 parts per million by volume, dry corrected to 7% oxygen. Initial compliance shall be conducted no later than June 4, 2006. Thereafter, compliance is based on a 24 hour daily block (arithmetic average) using a nitrogen oxides continuous emission monitoring system. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

For CEMS block averages greater than 1-hour (such as 4-hour and 24-hour blocks), 75% of the 1-hour averages must be valid in order to have a valid block average. Block averages with less than 75% of valid 1-hour averages would be partial blocks that would not be used for compliance but would be reported in the quarterly excess emissions report along with the date, time period, and reason.

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A partial block period could result during any block, other than the 1- hour period, that does not have solid waste continuously burning due to startup or shutdown or the unit being off line or the continuous emission monitoring being down (i.e., cylinder gas audit, etc.) for part of the block period. The exemption of data use under the Emission Guidelines (40 CFR 60.58B(a)(1)) may also create a partial block. Emission standards or permit limitations applicable to block periods are not applicable to the partial block periods. All partial block periods and the reason for the partial block period must be reported in the quarterly excess emissions report.

Manufacturer Name/Model Number: ALTECH 9000

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 170 parts per million by volume
(dry, corrected to 7% O₂)

Reference Test Method: 40 CFR 60 APP B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC
AVERAGE)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 45: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1705(a)(3), Subpart BBBB

Item 45.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: I-00012

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Carbon monoxide emission limit for mass burn rotary
waterwall Class I small MWC plants.

Carbon monoxide emissions from each MWC unit shall not exceed 250 parts per million by volume, dry corrected to 7% oxygen. Initial compliance shall be conducted no later than June 4, 2006. Thereafter, compliance is based on a

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24 hour block average (arithmetic mean) using a carbon monoxide continuous emission monitoring system. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

For CEMS block averages greater than 1-hour (such as 4-hour and 24-hour blocks), 75% of the 1-hour averages must be valid in order to have a valid block average. Block averages with less than 75% of valid 1-hour averages would be partial blocks that would not be used for compliance but would be reported in the quarterly excess emissions report along with the date, time period, and reason.

A partial block period could result during any block, other than the 1- hour period, that does not have solid waste continuously burning due to startup or shutdown or the unit being off line or the continuous emission monitoring being down (i.e., cylinder gas audit, etc.) for part of the block period. The exemption of data use under the Emission Guidelines (40 CFR 60.58B(a)(1)) may also create a partial block. Emission standards or permit limitations applicable to block periods are not applicable to the partial block periods. All partial block periods and the reason for the partial block period must be reported in the quarterly excess emissions report.

Manufacturer Name/Model Number: ALTECH 9000

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 250 parts per million by volume
(dry, corrected to 7% O₂)

Reference Test Method: 40 CFR 60 APP B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR BLOCK AVERAGE (ARITHMETIC MEAN)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**** Emission Unit Level ****

**Condition 46: Emission Point Definition By Emission Unit
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 46.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: I-00002

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Emission Point: OIAH1
Height (ft.): 6 Length (in.): 65 Width (in.): 47
NYTMN (km.): 4516.851 NYTME (km.): 659.833 Building: ASHBLDG

Emission Point: OIAH2
Height (ft.): 6 Length (in.): 65 Width (in.): 47
NYTMN (km.): 4516.859 NYTME (km.): 659.845 Building: ASHBLDG

Emission Point: OIAH3
Height (ft.): 30 Diameter (in.): 36
NYTMN (km.): 4516.833 NYTME (km.): 659.848 Building: ASHBLDG

Item 46.2:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: I-00012

Emission Point: OIBH1
Height (ft.): 150 Diameter (in.): 42
NYTMN (km.): 4516.823 NYTME (km.): 659.773 Building: BOILERHS

Emission Point: OIBH2
Height (ft.): 150 Diameter (in.): 42
NYTMN (km.): 4516.825 NYTME (km.): 659.774 Building: BOILERHS

Condition 47: Process Definition By Emission Unit
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 47.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: I-00002

Process: ASH

Source Classification Code: 1-01-012-02

Process Description:

This process includes emissions from the ash handling system at the Islip MacArthur Resource Recovery Facility. Up to three fans are used to maintain the ash building under negative pressure. Ash is conveyed into the ash building and discharged into a bay. A front end loader discharges the ash into a scalper to remove oversize and bulk metals. The ash falls through the scalper to an elevated conveyor where the ash passes two magnetic separators. This ash is then discharged into another bay. The ferrous metals and the oversize and bulk metals are discharged into two separate bays. The front end loader is used to load the material from each bay separately into transfer trailers which drive up adjacent to, but below the third bay.

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Emission Source/Control: 0IAH1 - Process
Design Capacity: 39.3 pounds per year

Emission Source/Control: 0IAH2 - Process
Design Capacity: 39.3 pounds per year

Emission Source/Control: 0IAH3 - Process
Design Capacity: 39.3 pounds per year

Item 47.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: I-00012

Process: MWC

Source Classification Code: 5-01-001-06

Process Description:

This process includes combustion of municipal solid waste in the two O'conner rotary combustion units. The waste combusted is primarily consisted of residential, commercial and other non-hazardous industrial waste streams as approved by NYSDEC on a case by case basis.

Emission Source/Control: 00005 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00006 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00009 - Control
Control Type: AUXILIARY BURNER

Emission Source/Control: 00010 - Control
Control Type: AUXILIARY BURNER

Emission Source/Control: 00011 - Control
Control Type: DRY SPRAY ABSORPTION

Emission Source/Control: 00012 - Control
Control Type: DRY SPRAY ABSORPTION

Emission Source/Control: 00013 - Control
Control Type: ACTIVATED CARBON INJECTION

Emission Source/Control: 00014 - Control
Control Type: ACTIVATED CARBON INJECTION

Emission Source/Control: 00001 - Incinerator
Design Capacity: 242.5 tons per day
Waste Feed Method: CHUTE FED
Waste Type: MUNICIPAL SOLID WASTE AND/OR SOLID WASTE

Emission Source/Control: 00002 - Incinerator

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Design Capacity: 242.5 tons per day
Waste Feed Method: CHUTE FED
Waste Type: MUNICIPAL SOLID WASTE AND/OR SOLID
WASTE

Item 47.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: I-00012

Process: STS

Source Classification Code: 5-01-900-06

Process Description:

This process includes combustion of No. 2 fuel oil, natural gas and Part 225-2 waste fuels in dual-fuel auxiliary burners located in the radiant section of the combustion chambers. Either No. 2 fuel oil, natural gas and/or Part 225-2 waste fuels will be used during the startup, shut down, malfunction and upset conditions to maintain a steady state operation of the unit, and to control periodic Carbon Monoxide emission spikes in the combustion chamber to achieve good combustion.

Emission Source/Control: 00005 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00006 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00009 - Control

Control Type: AUXILIARY BURNER

Emission Source/Control: 00010 - Control

Control Type: AUXILIARY BURNER

Emission Source/Control: 00011 - Control

Control Type: DRY SPRAY ABSORPTION

Emission Source/Control: 00012 - Control

Control Type: DRY SPRAY ABSORPTION

Emission Source/Control: 00013 - Control

Control Type: ACTIVATED CARBON INJECTION

Emission Source/Control: 00014 - Control

Control Type: ACTIVATED CARBON INJECTION

Emission Source/Control: 00001 - Incinerator

Design Capacity: 242.5 tons per day

Waste Feed Method: CHUTE FED

Waste Type: MUNICIPAL SOLID WASTE AND/OR SOLID
WASTE

Emission Source/Control: 00002 - Incinerator

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Design Capacity: 242.5 tons per day
Waste Feed Method: CHUTE FED
Waste Type: MUNICIPAL SOLID WASTE AND/OR SOLID
WASTE

Condition 48: Applicability of Subpart 219-8
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 219-8.1

Item 48.1:

This Condition applies to Emission Unit: I-00002

Item 48.2:

The permittee shall comply with the federal requirements of 40 CFR Part 60, Subpart BBBB incorporated by reference in 6 NYCRR Part 200 (see section 200.10, Table 2), as applicable.

Condition 49: Compliance Schedules for Class I and Class II small MWC units
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 219-8.3

Item 49.1:

This Condition applies to Emission Unit: I-00002

Item 49.2:

The Permittee shall comply with the requirements of Subpart 219-8.1 in accordance with the applicable Class I or Class II compliance schedule provided in 6 NYCRR Subpart 219-8.3

Condition 50: 40 CFR 60, Subpart BBBB Conditions
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60, Subpart BBBB

Item 50.1:

This Condition applies to Emission Unit: I-00002

Item 50.2:

The Permittee shall comply with all 40 CFR 60, Subpart BBBB permit conditions contained herein, in accordance with the applicable Class I or Class II compliance schedule provided in 6 NYCRR Subpart 219-8.3.

Condition 51: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1705(a)(1), Subpart BBBB

Item 51.1:

The Compliance Certification activity will be performed for:



(a) Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in Subpart BBBB.

(b) Submit all reports on paper, postmarked on or before the submittal dates in 40 CFR 60.1870, 60.1880, and 60.1895. If the Department agrees, permittee may submit electronic reports.

(c) Keep a copy of all reports required by 40 CFR 60.1875, 60.1885 and 60.1900 onsite for 5 years.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 53: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 200.7

Item 53.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operation Log:

An operation log shall be kept which records the time in service (including start-up, shutdown and upset conditions), quantities of refuse burn on a daily basis, and all maintenance and repair of air pollution control devices. Such record shall be made available for inspection by Department personnel.

Proper Operation and Maintenance:

The permittee shall at all times properly operate and maintain this facility. Proper operation and maintenance includes, but not limited to effective performance, adequate process and laboratory controls, and appropriate quality control and quality assurance requirements of this permit. This provision requires the operation of backup or auxiliary facilities or similar system only when necessary to achieve compliance with the conditions of this permit.



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Facility DEC ID: 1472800185

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 54: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (f) (1)

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operational Flexibility:

Both MWC Units (Emission Unit I-00012) are capable of using the Carbon Injection System(s) (Emission Sources/Controls 00013 and 00014) as a control device for mercury and total dioxins/furans stack emissions. The permittee must operate the carbon injection system if the mandatory annual total dioxins/furans and mercury emissions do not comply with the limits provided in this permit.

The annual stack testing for total dioxins/ furans and mercury may be performed without the carbon injection system. If the annual stack test indicates that the dioxins/furans and mercury emission are within the limits provided in the permit, the permittee may choose as its discretion not to operate the carbon injection system till the next annual testing period. Subsequently, the record keeping and reporting requirements shall be suspended when determined, through the annual stack testing, that the limits provided in this permit for total dioxins/furans and mercury emissions are satisfied without the operation of the Carbon Injection System(s).

Manufacturer Name/Model Number: NORIT Americas, Inc.
Powdered Activated Carbon Systems

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).



Condition 55: Applicability of Subpart 219-8
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 219-8.1

Item 55.1:

This Condition applies to Emission Unit: I-00012

Item 55.2:

The permittee shall comply with the federal requirements of 40 CFR Part 60, Subpart BBBB incorporated by reference in 6 NYCRR Part 200 (see section 200.10, Table 2), as applicable.

Condition 56: Compliance Schedules for Class I and Class II small MWC units
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 219-8.3

Item 56.1:

This Condition applies to Emission Unit: I-00012

Item 56.2:

The Permittee shall comply with the requirements of Subpart 219-8.1 in accordance with the applicable Class I or Class II compliance schedule provided in 6 NYCRR Subpart 219-8.3

Condition 57: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The maximum annual charging rate for this facility is 177,025 tons per year of unprocessed refuse. The burning of tires, demolition wastes (such as asbestos or wallboard) and industrial or hazardous wastes are prohibited.

Waste charge is recorded on a per delivery basis to track compliance with this permit.

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

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Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

Condition 58: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 52.21(j)(2), Subpart A

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

VOC emissions from each furnace stack shall be limited to 9.7lb/hr. Compliance based on annual stack testing using method stated herein. Good combustion practices are employed to minimize VOC emissions.

Upper Permit Limit: 9.7 pounds per hour

Reference Test Method: Method 25A

Monitoring Frequency: ANNUALLY

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 59: 40 CFR 60, Subpart BBBB Conditions
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60, Subpart BBBB

Item 59.1:

This Condition applies to Emission Unit: I-00012

Item 59.2:

The Permittee shall comply with all 40 CFR 60, Subpart BBBB permit conditions contained herein, in accordance with the applicable Class I or Class II compliance schedule provided in 6 NYCRR Subpart 219-8.3.

Condition 60: Operation of MWC Unit when Certified Operator is
Temporarily Off-Site
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1685, Subpart BBBB



Item 60.1:

This Condition applies to Emission Unit: I-00012

Item 60.2:

If the certified chief facility operator and certified shift supervisor are both unavailable, a provisionally certified control room operator may fulfill the certified operator requirement. Depending on the length of time that a certified chief facility operator and certified shift supervisor are away, you must meet one of three criteria:

(a) When the certified chief facility operator and certified shift supervisor are both offsite for 12 hours or less and no other certified operator is onsite, the provisionally certified control room operator may perform those duties without notice to, or approval by, the Department.

(b) When the certified chief facility operator and certified shift supervisor are offsite for more than 12 hours, but for 2 weeks or less, and no other certified operator is onsite, the provisionally certified control room operator may perform those duties without notice to, or approval by, the Department. However, you must record the periods when the certified chief facility operator and certified shift supervisor are offsite and include the information in the annual report as specified under 40 CFR 60.1885(l).

(c) When the certified chief facility operator and certified shift supervisor are offsite for more than 2 weeks, and no other certified operator is onsite, the provisionally certified control room operator may perform those duties without approval by the Department. However, you must take two actions:

(1) Notify the Department in writing. In the notice, state what caused the absence and what you are doing to ensure that a certified chief facility operator or certified shift supervisor is onsite.

(2) Submit a status report and corrective action summary to the Department every 4 weeks following the initial notification. If the Department notifies you that



your status report or corrective action summary is disapproved, your MWC unit(s) may continue operation for 90 days, but then must cease operation. If corrective actions are taken in the 90-day period such that the Department withdraws the disapproval, your MWC unit(s) operation may continue.

**Condition 61: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1690, Subpart BBBB

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

MWC Operating Practices Requirements for particulate matter control device.

- (a) Permittee must not operate any municipal waste combustion unit such that the temperature at the inlet of the particulate matter control device exceeds 17°C above the "maximum demonstrated temperature of the particulate matter control device", as specified under §60.1940.
- (b) All MWC units are exempt from limits on the temperature at the inlet of the particulate matter control device during any of the following five situations:
 - (1) During annual tests for dioxins/furans.
 - (2) During annual mercury tests (for carbon feed rate requirements only).
 - (3) During the 2 weeks preceding annual tests for dioxins/furans.
 - (4) During the 2 weeks preceding annual mercury tests (for carbon feed rate requirements only).
 - (5) Whenever the Department authorizes the Permittee to do



any of the following five activities:

- (i) Evaluate system performance.
 - (ii) Test new technology or control technologies.
 - (iii) Perform diagnostic testing.
 - (iv) Perform other activities to improve the performance of your municipal waste combustion unit(s).
 - (v) Perform other activities to advance the state of the art for emission controls for your municipal waste combustion unit(s).
- (c) Permittee must install, calibrate, maintain, and operate a device to continuously measure the temperature of the flue gas stream at the inlet of each particulate matter control device. Compliance is based on a 4-hour block arithmetic average.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: 17 deg C above maximum demonstrated temperature of PM control as per §60.1940

Monitoring Frequency: CONTINUOUS

Averaging Method: 4-HOUR BLOCK (ARITHMETIC AVERAGE)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 62: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1690, Subpart BBBB

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

MWC Operating Practices Requirements for Unit Load Level and Activated Carbon Feed Rate:

- (a) Permittee must not operate any MWC unit at a load greater than 110 percent of the maximum demonstrated load of the MWC unit (4-hour block average), as specified under



"Definitions" (40 CFR 60.1940).

(b) MWC unit(s) using activated carbon to control dioxins/furans or mercury emissions, must maintain an 8-hour block average carbon feed rate at or above the highest average level established during the most recent dioxins/furans or mercury test.

(c) MWC unit(s) using activated carbon to control dioxins/furans or mercury emissions, must evaluate total carbon usage for each calendar quarter. The total amount of carbon purchased and delivered to the MWC plant must be at or above the required quarterly usage of carbon. Permittee may choose to evaluate required quarterly carbon usage on a MWC unit basis for each individual MWC unit at the plant. The required quarterly usage of carbon shall be calculated using equation 4 or 5 in 40 CFR 60.1935(f).

(d) All MWC units are exempt from limits on load level, and carbon feed rate during any of the following five situations:

(1) During annual tests for dioxins/furans.

(2) During annual mercury tests (for carbon feed rate requirements only).

(3) During the 2 weeks preceding annual tests for dioxins/furans.

(4) During the 2 weeks preceding annual mercury tests (for carbon feed rate requirements only).

(5) Whenever the Department authorizes the Permittee to do any of the following five activities:

(i) Evaluate system performance.

(ii) Test new technology or control technologies.

(iii) Perform diagnostic testing.

(iv) Perform other activities to improve the performance of your municipal waste combustion unit(s).

(v) Perform other activities to advance the state of the art for emission controls for your municipal waste combustion unit(s).

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 63: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1695, Subpart BBBB

Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The operating requirements specified in 40CFR60.1690 shall apply at all times except during periods of MWC unit startup, shutdown, or malfunction. Each startup, shutdown or malfunction must not last for longer than 3 hours.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 64: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1705(a)(1), Subpart BBBB

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Regulated Contaminant(s):

CAS No: 007440-43-9 CADMIUM

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Cadmium emission limit for Class I small MWC plants.

Cadmium emissions from each MWC unit shall not exceed 0.040 milligrams per dry standard cubic meter, corrected to 7% oxygen, based on a 3-run average. Initial compliance stack tests shall be conducted no later than



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June 4, 2006. Thereafter, annual stack tests shall be conducted no later than 13 months after the previous stack test. EPA Reference Method 29 provided in 40 CFR 60, Appendix A shall be used to demonstrate compliance. Compliance testing must be performed while the MWC unit is operating at full load. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

Parameter Monitored: CADMIUM
Upper Permit Limit: 0.040 milligrams per dry standard
cubic meter (corrected to 7% oxygen)
Reference Test Method: EPA Ref. Method 29
Monitoring Frequency: ANNUALLY
Averaging Method: ARITHMETIC MEAN
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

**Condition 65: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1705(a)(1), Subpart BBBBB

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Regulated Contaminant(s):

CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Total dioxins/furans emission limit for Class I small MWC plants that do not employ an electrostatic precipitator-based emission control system.

Total dioxins/furans emissions from each MWC unit shall not exceed 30 nanograms per dry standard cubic meter, corrected to 7% oxygen, based on a 3-run average. Initial compliance stack tests shall be conducted no later than June 4, 2006. Thereafter, annual stack tests shall be conducted no later than 13 months after the previous stack test. EPA Reference Method 23 provided in 40 CFR 60, Appendix A shall be used to demonstrate compliance. Compliance testing must be performed while the MWC unit is operating at full load. A minimum sampling time of 4

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hours per test run is required. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

Parameter Monitored: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Upper Permit Limit: 30 nanograms per dry standard cubic meter (corrected to 7% O₂)

Reference Test Method: EPA Ref. Method 23

Monitoring Frequency: ANNUALLY

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 66: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1705(a)(1), Subpart BBBB

Item 66.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Hydrogen chloride emission limit for Class I small MWC plants.

Hydrogen chloride emissions from each MWC unit shall meet the less stringent of 31 parts per million by volume, dry corrected to 7% oxygen, or the percent reduction by weight or volume hydrogen chloride emission limit provided in this permit, based on a 3-run average. Initial compliance stack tests shall be conducted no later than June 4, 2006.

Thereafter, annual stack tests shall be conducted no later than 13 months after the previous stack test. EPA Reference Method 26 or 26A provided in 40 CFR 60, Appendix A shall be used to demonstrate compliance. Compliance testing must be performed while the MWC unit is operating at full load. A minimum sampling time of 1 hour per test run is required. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

Parameter Monitored: HYDROGEN CHLORIDE

Upper Permit Limit: 31 parts per million by volume (dry,

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corrected to 7% O₂)
Reference Test Method: EPA Method 26/26A
Monitoring Frequency: ANNUALLY
Averaging Method: ARITHMETIC MEAN
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 67: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1705(a)(1), Subpart BBBB

Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Regulated Contaminant(s):
CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Hydrogen chloride emission limit for Class I small MWC plants.

Hydrogen chloride emissions from each MWC unit shall meet the less stringent of 95 percent reduction by weight or volume, dry corrected to 7% oxygen, or the concentration based hydrogen chloride emission limit provided in this permit, based on a 3-run average. Initial compliance stack tests shall be conducted no later than June 4, 2006.

Thereafter, annual stack tests shall be conducted no later than 13 months after the previous stack test. EPA Reference Method 26 or 26A provided in 40 CFR 60, Appendix A shall be used to demonstrate compliance. Compliance testing must be performed while the MWC unit is operating at full load. A minimum sampling time of 1 hour per test run is required. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

Parameter Monitored: HYDROGEN CHLORIDE

Lower Permit Limit: 95 percent reduction by weight or volume (corrected to 7% O₂, dry basis)

Reference Test Method: EPA Method 26/26A

Monitoring Frequency: ANNUALLY

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



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Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 68: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1705(a)(1), Subpart BBBB

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Regulated Contaminant(s):

CAS No: 007439-92-1 LEAD

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Lead emission limit for Class I small MWC plants.

Lead emissions from each MWC unit shall not exceed 0.490 milligrams per dry standard cubic meter, corrected to 7% oxygen, based on a 3-run average. Initial compliance stack tests shall be conducted no later than June 4, 2006.

Thereafter, annual stack tests shall be conducted no later than 13 months after the previous stack test. EPA Reference Method 29 provided in 40 CFR 60, Appendix A shall be used to demonstrate compliance. Compliance testing must be performed while the MWC unit is operating at full load. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

Parameter Monitored: LEAD

Upper Permit Limit: 0.490 milligrams per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Ref. Method 29

Monitoring Frequency: ANNUALLY

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 69: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1705(a)(1), Subpart BBBB

Item 69.1:

The Compliance Certification activity will be performed for:

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Emission Unit: I-00012

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Mercury emission limit for Class I small MWC plants.

Mercury emissions from each MWC unit shall meet the less stringent of 0.080 milligrams per dry standard cubic meter, corrected to 7% oxygen, or the percent reduction by weight mercury emission limit provided in this permit, based on a 3-run average. Initial compliance stack tests shall be conducted no later than June 4, 2006.

Thereafter, annual stack tests shall be conducted no later than 13 months after the previous stack test. EPA Reference Method 29 provided in 40 CFR 60, Appendix A shall be used to demonstrate compliance. Compliance testing must be performed while the MWC unit is operating at full load. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

Parameter Monitored: MERCURY

Upper Permit Limit: 0.080 milligrams per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Ref. Method 29

Monitoring Frequency: ANNUALLY

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 70: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1705(a)(1), Subpart BBBBB

Item 70.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 70.2:

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Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Mercury emission limit for Class I small MWC plants.

Mercury emissions from each MWC unit shall meet the less stringent of 85 percent reduction by weight, dry corrected to 7% oxygen, or the concentration based mercury emission limit provided in this permit, based on a 3-run average. Initial compliance stack tests shall be conducted no later than June 4, 2006. Thereafter, annual stack tests shall be conducted no later than 13 months after the previous stack test. EPA Reference Method 29 provided in 40 CFR 60, Appendix A shall be used to demonstrate compliance. Compliance testing must be performed while the MWC unit is operating at full load. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

Parameter Monitored: MERCURY

Lower Permit Limit: 85 percent reduction by weight
(corrected to 7% O₂, dry basis)

Reference Test Method: EPA Ref. Method 29

Monitoring Frequency: ANNUALLY

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 71: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1705(a)(1), Subpart BBBBB

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 71.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Opacity emission limit for Class I small MWC plants.

Opacity emissions from each MWC unit shall not exceed 10 percent based on a 3 hour observation period (thirty

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6-minute averages). Initial compliance stack tests shall be conducted no later than June 4, 2006. Thereafter, annual stack tests shall be conducted no later than 13 months after the previous stack test. EPA Reference Method 9 provided in 40 CFR 60, Appendix A shall be used to demonstrate compliance. Compliance testing must be performed while the MWC unit is operating at full load. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

Parameter Monitored: OPACITY
Upper Permit Limit: 10 percent
Reference Test Method: EPA Ref. Method 9
Monitoring Frequency: ANNUALLY
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 72: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1705(a)(1), Subpart BBBBB

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 72.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate matter emission limit for Class I small MWC plants.

Particulate matter emissions from each MWC unit shall not exceed 27 milligrams per dry standard cubic meter, corrected to 7% oxygen, based on a 3-run average. Initial compliance stack tests shall be conducted no later than June 4, 2006. Thereafter, annual stack tests shall be conducted no later than 13 months after the previous stack test. EPA Reference Method 5 or 29 provided in 40 CFR 60, Appendix A shall be used to demonstrate compliance. Compliance testing must be performed while the MWC unit is operating at full load. The minimum sample volume must be 1.0 cubic meters. The probe and filter holder heating

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systems in the sample train must be set to provide a gas temperature no greater than 160 +/- 14 degrees C. The minimum sampling time is 1 hour. Reporting shall be done in accordance with 40 CFR 60.1860 through 60.1905, as applicable.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 27 milligrams per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Meth 5 or 29

Monitoring Frequency: ANNUALLY

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 73: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1710, Subpart BBBB

Item 73.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 73.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Start-up, shutdown and malfunction emission limits:

- (a) The emission limits in this permit apply at all times except during periods of municipal waste combustion unit startup, shutdown, or malfunction.
- (b) Each startup, shutdown, or malfunction must not last for longer than 3 hours.
- (c) A maximum of 3 hours of test data can be dismissed from compliance calculations during periods of startup, shutdown, or malfunction.
- (d) During startup, shutdown, or malfunction periods longer than 3 hours, emissions data cannot be discarded from compliance calculations and all provisions under 40 CFR 60.11(d) apply.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.



Subsequent reports are due every 6 calendar month(s).

Condition 74: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1720, Subpart BBBBB

Item 74.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 74.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Continuous emission monitoring systems for gaseous pollutants:

(a) Permittee must install, calibrate, maintain, and operate continuous emission monitoring systems for oxygen (or carbon dioxide), sulfur dioxide, nitrogen oxides, and carbon monoxide. Continuous emission monitoring systems for sulfur dioxide, nitrogen oxides, and oxygen (or carbon dioxide) must be installed at the outlet of the air pollution control device. In accordance with 40 CFR 60.1725, data from the continuous emission monitoring systems for sulfur dioxide, nitrogen oxides, and carbon monoxide shall be used to demonstrate compliance with the applicable emission limits specified in this permit.

(b) Permittee must install, evaluate, and operate each continuous emission monitoring system according to the "Monitoring Requirements" in 40 CFR 60.13.

(c) Permittee must monitor the oxygen (or carbon dioxide) concentration at each location where sulfur dioxide, nitrogen oxides and carbon monoxide are monitored.

(d) Permittee may choose to monitor carbon dioxide instead of oxygen as a diluent gas. If Permittee chooses to monitor carbon dioxide, then an oxygen monitor is not required. If carbon dioxide is chosen as the diluent gas, permittee must establish the relationship between oxygen and carbon dioxide during the initial evaluation of the continuous emission monitoring systems. Permittee may reestablish the relationship during annual evaluations. To establish the relationship the following three procedures shall be used:



(1) Use EPA Reference Method 3A or 3B in Appendix A of Part 60 to determine oxygen concentration at the location of your carbon dioxide monitor.

(2) Conduct at least three test runs for oxygen. Make sure each test run represents a 1-hour average and that sampling continues for at least 30 minutes in each hour.

(3) Use the fuel-factor equation in EPA Reference Method 3B in Appendix A of Part 60 to determine the relationship between oxygen and carbon dioxide.

(e) If Permittee chooses to demonstrate compliance by monitoring the percent reduction of sulfur dioxide, continuous emission monitoring systems for sulfur dioxide and oxygen (or carbon dioxide) must be installed at the inlet of the air pollution control device.

(f) If Permittee prefers to use an alternative sulfur dioxide monitoring method, such as parametric monitoring, or cannot monitor emissions at the inlet of the air pollution control device to determine percent reduction, Permittee can apply to the Department for approval to use an alternative monitoring method under 40 CFR 60.13(i).

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 75: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1730, Subpart BBBBB

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Continuous emission monitoring systems operation / evaluation requirements:

(a) Permittee shall conduct initial, daily, quarterly, and annual evaluations of continuous emission monitoring systems that measure oxygen (or carbon dioxide), sulfur dioxide, nitrogen oxides, and carbon monoxide.



(b) Complete initial evaluation of the continuous emission monitoring systems within 180 days after the final compliance date required by 6 NYCRR Subpart 219-8.

(c) For initial and annual evaluations, collect data concurrently (or within 30 to 60 minutes) using oxygen (or carbon dioxide), sulfur dioxide, nitrogen oxides, or carbon monoxide continuous emission monitoring systems, as appropriate, and the appropriate test methods specified in Table 6 of 40 CFR 60, Subpart BBBB. Permittee shall collect the data during each initial and annual evaluation of the continuous emission monitoring systems following the applicable performance specifications outlined in Table 7 of 40 CFR 60, Subpart BBBB.

(d) Permittee shall follow the quality assurance procedures in Procedure 1 of Appendix F of 40 CFR 60 for each continuous emission monitoring system. The procedures include daily calibration drift and quarterly accuracy determinations.

(e) In accordance with 40CFR 60.1735, oxygen (or carbon dioxide) continuous emission monitoring systems are exempt from the following two requirements:

(1) Section 2.3 of Performance Specification 3 (relative accuracy requirement) in appendix B of 40 CFR Part 60.

(2) Section 5.1.1 of appendix F (relative accuracy test audit) of 40 CFR Part 60.

(f) In accordance with 40CFR 60.1740, permittee shall conduct annual evaluations of continuous emission monitoring systems no more than 13 months after the previous evaluation was conducted.

(g) In accordance with 40CFR 60.1765, permittee shall use the required span values and applicable performance specifications in Table 7 of 40 CFR 60 Subpart BBBB.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 76: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1750, Subpart BBBB

Item 76.1:



The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 76.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Continuous emission monitoring systems data collection requirements:

(a) Where continuous emission monitoring systems are required, Permittee shall obtain 1- hour arithmetic averages. The averages for all measured pollutants must be in parts per million by dry volume at 7 percent oxygen (or the equivalent carbon dioxide level). The 1- hour averages of oxygen (or carbon dioxide) data from the continuous emission monitoring system shall be used to determine the actual oxygen (or carbon dioxide) level and to calculate emissions at 7 percent oxygen (or the equivalent carbon dioxide level).

(b) Permittee shall obtain at least two data points per hour in order to calculate a valid 1- hour arithmetic average. In accordance with 40 CFR 60.13(e)(2) , the continuous emission monitoring systems must complete at least one cycle of operation (sampling, analyzing, and data recording) for each 15-minute period.

(c) Permittee shall obtain valid 1-hour averages for 75 percent of the operating hours per day for 90 percent of the operating days per calendar quarter. An operating day is any day the unit combusts any municipal solid waste.

(d) If Permittee does not obtain the minimum data required in paragraphs (a) through (c) of this condition, Permittee is in violation of the data collection requirement regardless of the emission level monitored, and must notify the Department according to 40 CFR 60.1885(e).

(e) If Permittee does not obtain the minimum data required in paragraphs (a) through (c) of this section, you must still use all valid data from the continuous emission monitoring systems in calculating emission concentrations and percent reductions in accordance with 40 CFR 60.1755.

(f) In accordance with 40CFR60.1770, permittee shall refer to Table 7 of 40 CFR 60, Subpart BBBB for alternate



methods to be used for collecting data when systems malfunction or when repairs, calibration checks, or zero and span checks keep you from collecting the minimum amount of data.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 77: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1755, Subpart BBBB

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 77.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee shall follow the following procedure for conversion of 1 hr. arithmetic averages into appropriate averaging time and units:

- (a) Use the equation in 40CFR 60.1935(a) to calculate emissions at 7 percent oxygen.
- (b) Use EPA Reference Method 19 in appendix A of Part 60, section 4.3, to calculate the daily geometric average concentrations of sulfur dioxide emissions. If you are monitoring the percent reduction of sulfur dioxide, use EPA Reference Method 19 in appendix A of Part 60, section 5.4, to determine the daily geometric average percent reduction of potential sulfur dioxide emissions.
- (c) Use EPA Reference Method 19 in appendix A of Part 60, section 4.1, to calculate the daily arithmetic average for concentrations of nitrogen oxides.
- (d) Use EPA Reference Method 19 in appendix A of Part 60, section 4.1, to calculate the 4-hour or 24-hour daily block averages (as applicable) for concentrations of carbon monoxide.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).



Condition 78: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40 CFR 60.1760, Subpart BBBBB

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Continuous opacity monitoring system requirements:

- (a) Permittee shall install, calibrate, maintain, and operate a continuous opacity monitoring system.
- (b) Install, evaluate, and operate each continuous opacity monitoring system according to 40 CFR 60.13.
- (c) Complete an initial evaluation of the continuous opacity monitoring system according to Performance Specification 1 in Appendix B of 40 CFR 60, and complete the evaluation by 180 days after the final compliance date required by 6 NYCRR Subpart 219-8.
- (d) Complete each annual evaluation of the continuous opacity monitoring system no more than 13 months after the previous evaluation.
- (e) Use tests conducted according to EPA Reference Method 9 in Appendix A of 40 CFR 60, as specified in 40 CFR 60.1790, to determine compliance with the opacity limit in this permit. The data obtained from the continuous opacity monitoring system shall not be used to determine compliance with the opacity limit.
- (f) In accordance with 40 CFR 60.1765, Permittee shall use the required span values and applicable performance specifications in Table 7 of 40 CFR 60, Subpart BBBBB.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 79: Compliance Certification
Effective for entire length of Permit



Applicable Federal Requirement: 40CFR 60.1775, Subpart BBBB

Item 79.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Permittee shall comply with the following Stack testing requirements in accordance with 40CFR 60.1775, 60.1780, 60.1785, 60.1790 and 60.1800:

- (a) Permittee shall conduct initial and annual stack tests to measure the emission levels of dioxins/furans, cadmium, lead, mercury, particulate matter, opacity, hydrogen chloride, and fugitive ash to demonstrate compliance with the applicable emission limits specified in this permit. Initial stack tests for these pollutants shall be conducted no later than June 4, 2006. Annual stack test shall be conducted no later than 13 months after the previous stack test. You may not deviate from the 13-month testing schedule unless you apply to the Department for an alternative schedule, and the Department approves your request for alternate scheduling prior to the date on which you would otherwise have been required to conduct the next stack test.
- (b) Permittee shall follow Table 8 of 40 CFR 60, Subpart BBBB to establish the sampling location and to determine pollutant concentrations, number of traverse points, individual test methods, and other specific testing requirements for the different pollutants.
- (c) Stack tests for all the pollutants shall consist of at least three test runs, as specified in 40 CFR 60.8. The average of the pollutant emission concentrations from the three test runs shall be used to determine compliance with the applicable emission limits in this permit.
- (d) Permittee shall obtain an oxygen (or carbon dioxide) measurement during the stack tests to determine diluent gas levels, as specified in 40 CFR 60.1720.
- (e) The equations in 40 CFR 60.1935(a) shall be used to calculate emission levels at 7 percent oxygen (or an equivalent carbon dioxide basis), the percent reduction in potential hydrogen chloride emissions, and the reduction

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efficiency for mercury emissions. Permittee shall refer to the individual test methods in Table 6 of 40 CFR 60, Subpart BBBB for other required equations.

(f) Permittee may apply to the Department for approval under 40 CFR 60.8(b) to use a reference method with minor changes in methodology, use an equivalent method, use an alternative method the results of which the department has determined are adequate for demonstrating compliance, waive the requirement for a performance test because Permittee has demonstrated compliance by other means, or use a shorter sampling time or smaller sampling volume.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 80: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1795(b), Subpart BBBB

Item 80.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Regulated Contaminant(s):

CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Alternative dioxins/furans emissions stack testing at Class I small MWC plants:

(a) Permittee may test less often for dioxins/furans emissions if all municipal waste combustion units have demonstrated levels of dioxins/furans emissions (less than or equal to the limit specified in this condition), for 2 consecutive years. In this case, Permittee may choose to conduct annual stack tests on only one municipal waste combustion unit per year. This provision only applies to stack testing for dioxins/furans emissions.

(b) Permittee shall conduct the annual stack test no more than 13 months following a stack test on any municipal waste combustion unit. A minimum sampling time of 4 hours per test run is required. Compliance shall be based on a 3-run average. Each year, Permittee shall test a



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall comply with the following MWC load level, temperature and carbon feed rate monitoring requirements in accordance with 40 CFR 60.1805, 60.1810, 60.1815, 60.1820 and 60.1825:

(a) Permittee must monitor the load level of each municipal waste combustion unit. For each municipal waste combustion unit that generates steam, Permittee must install, calibrate, maintain, and operate a steam flow meter or a feed water flow meter and meet the following five requirements:

(1) Continuously measure and record the measurements of steam (or feed water) in kilograms (or pounds) per hour.

(2) Calculate steam (or feed water) flow in 4-hour block averages.

(3) Calculate the steam (or feed water) flow rate using the method in "American Society of Mechanical Engineers Power Test Codes: Test Code for Steam Generating Units, Power Test Code 4.1--1964 (R1991)," Section 4 (incorporated by reference in 40 CFR 60.17(h)(2)).

(4) Design, construct, install, calibrate, and use nozzles or orifices for flow rate measurements, using the recommendations in "American Society of Mechanical Engineers Interim Supplement 19.5 on Instruments and Apparatus: Application, Part II of Fluid Meters," 6th Edition (1971), chapter 4 (incorporated by reference in 40 CFR 60.17(h)(3)).

(5) Before each dioxins/furans stack test, or at least once a year, calibrate all signal conversion elements associated with steam (or feed water) flow measurements according to the manufacturer instructions.

(b) If Permittee's municipal waste combustion units do not generate steam, or, if Permittee's municipal waste combustion units have shared steam systems and steam load cannot be estimated per unit, Permittee must determine, to the satisfaction of the Department, one or more operating parameters that can be used to continuously estimate load level (for example, the feed rate of municipal solid waste). Permittee must continuously monitor the selected parameters.

(c) Permittee must install, calibrate, maintain, and operate a device to continuously measure the temperature



of the flue gas stream at the inlet of each particulate matter control device.

(d) For each municipal waste combustion unit that uses activated carbon to control dioxins/furans or mercury emissions, Permittee must meet the following three requirements:

(1) Select a carbon injection system operating parameter that can be used to calculate carbon feed rate (for example, screw feeder speed).

(2) During each dioxins/furans and mercury stack test, determine the average carbon feed rate in kilograms (or pounds) per hour. Also, determine the average operating parameter level that correlates to the carbon feed rate and establish a relationship between the operating parameter and the carbon feed rate in order to calculate the carbon feed rate based on the operating parameter level.

(3) Continuously monitor the selected operating parameter during all periods when the municipal waste combustion unit is operating and combusting waste and calculate the 8-hour block average carbon feed rate in kilograms (or pounds) per hour, based on the selected operating parameter. When calculating the 8-hour block average, Permittee must do two things:

(i) Exclude hours when the municipal waste combustion unit is not operating.

(ii) Include hours when the municipal waste combustion unit is operating but the carbon feed system is not working correctly.

(e) Where continuous parameter monitoring systems are used, Permittee must obtain 1-hour arithmetic averages for the following three parameters:

(1) Load level of the municipal waste combustion unit.

(2) Temperature of the flue gases at the inlet of the particulate matter control device.

(3) Carbon feed rate if activated carbon is used to control dioxins/furans or mercury emissions.

(f) Permittee must obtain at least two data points per hour in order to calculate a valid 1-hour arithmetic average.

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(g) Permittee must obtain valid 1-hour averages for at least 75 percent of the operating hours per day for 90 percent of the operating days per calendar quarter. An operating day is any day the unit combusts any municipal solid waste.

(h) If Permittee fails to obtain the minimum data required in paragraphs (e) through (g) of this condition, Permittee is in violation of the data collection requirement, and must notify the Department.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 82: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1830, Subpart BBBB

Item 82.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 82.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee must keep four types of records:

- (a) Operator training and certification.
- (b) Stack tests.
- (c) Continuously monitored pollutants and parameters.
- (d) Carbon feed rate.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 83: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.1835, Subpart BBBB

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Item 83.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall:

- (a) Keep all records onsite in paper copy or electronic format unless the Department approves another format.
- (b) Keep all records on each municipal waste combustion unit for at least 5 years.
- (c) Make all records available for submittal to the Department, or for onsite review by a Department representative.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 84: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1840, Subpart BBBBB

Item 84.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 84.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall keep the following six records for operator training and certification:

- (a) Records of provisional certifications. Include three items:
 - (1) For your municipal waste combustion plant, names of the chief facility operator, shift supervisors, and control room operators who are provisionally certified by



the American Society of mechanical Engineers or an equivalent State-approved certification program.

(2) Dates of the initial provisional certifications.

(3) Documentation showing current provisional certifications.

(b) Records of full certifications. Include three items:

(1) For your municipal waste combustion plant, names of the chief facility operator, shift supervisors, and control room operators who are fully certified by the American Society of Mechanical Engineers or an equivalent State-approved certification program.

(2) Dates of initial and renewal full certifications.

(3) Documentation showing current full certifications.

(c) Records showing completion of the operator training course. Include three items:

(1) For your municipal waste combustion plant, names of the chief facility operator, shift supervisors, and control room operators who have completed the EPA or State municipal waste combustion operator training course.

(2) Dates of completion of the operator training course.

(3) Documentation showing completion of operator training course.

(d) Records of reviews for plant-specific operating manuals. Include three items:

(1) Names of persons who have reviewed the operating manual.

(2) Date of the initial review.

(3) Dates of subsequent annual reviews.

(e) Records of when a certified operator is temporarily offsite. Include two main items:



(1) If the certified chief facility operator and certified shift supervisor are offsite for more than 12 hours, but for 2 weeks or less, and no other certified operator is onsite, record the dates that the certified chief facility operator and certified shift supervisor were offsite.

(2) When all certified chief facility operators and certified shift supervisors are offsite for more than 2 weeks and no other certified operator is onsite, keep records of four items:

(i) Your notice that all certified persons are offsite.

(ii) The conditions that cause those people to be offsite.

(iii) The corrective actions you are taking to ensure a certified chief facility operator or certified shift supervisor is onsite.

(iv) Copies of the written reports submitted every 4 weeks that summarize the actions taken to ensure that a certified chief facility operator or certified shift supervisor will be onsite.

(f) Records of calendar dates. Include the calendar date on each record.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 85: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.1845, Subpart BBBBB

Item 85.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall keep the following four records for stack tests required under 40 CFR 60.1775:



(a) The results of the stack tests for the following eight pollutants or parameters recorded in the appropriate units of measure specified in Table 2 or 4 of 40 CFR 60, Subpart BBBB:

- (1) Dioxins/furans.
- (2) Cadmium.
- (3) Lead.
- (4) Mercury.
- (5) Opacity.
- (6) Particulate matter.
- (7) Hydrogen chloride.
- (8) Fugitive ash.

(b) Test reports including supporting calculations that document the results of all stack tests.

(c) The maximum demonstrated load of your municipal waste combustion units and maximum temperature at the inlet of your particulate matter control device during all stack tests for dioxins/furans emissions.

(d) The calendar date of each record.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 86: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1850, Subpart BBBB

Item 86.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall keep the following eight records for continuously monitored pollutants or parameters:



- (a) Records of monitoring data including:
 - (1) All 6-minute average levels of opacity.
 - (2) All 1-hour average concentrations of sulfur dioxide emissions.
 - (3) All 1-hour average concentrations of nitrogen oxides emissions.
 - (4) All 1-hour average concentrations of carbon monoxide emissions.
 - (5) All 1-hour average load levels of your municipal waste combustion unit.
 - (6) All 1-hour average flue gas temperatures at the inlet of the particulate matter control device.
- (b) Records of average concentrations and percent reductions including:
 - (1) All 24-hour daily block geometric average concentrations of sulfur dioxide emissions or average percent reductions of sulfur dioxide emissions.
 - (2) All 24-hour daily arithmetic average concentrations of nitrogen oxides emissions.
 - (3) All 4-hour block or 24-hour daily block arithmetic average concentrations of carbon monoxide emissions.
 - (4) All 4-hour block arithmetic average load levels of your municipal waste combustion unit.
 - (5) All 4-hour block arithmetic average flue gas temperatures at the inlet of the particulate matter control device.
- (c) Records of exceedances including the following three items:
 - (1) Calendar dates whenever any of the five pollutant or parameter levels recorded in paragraph (b) of this condition or the opacity level recorded in subparagraph (a)(1) of this condition did not meet the emission limits or operating levels specified in 40 CFR 60, Subpart BBBB.
 - (2) Reasons you exceeded the applicable emission limits or



operating levels.

(3) Corrective actions you took, or are taking, to meet the emission limits or operating levels.

(d) Records of minimum data including the following three items:

(1) Calendar dates for which you did not collect the minimum amount of data required under 40 CFR 60.1750 and 60.1825. Record those dates for the following five types of pollutants and parameters:

(i) Sulfur dioxide emissions.

(ii) Nitrogen oxides emissions.

(iii) Carbon monoxide emissions.

(iv) Load levels of your municipal waste combustion unit.

(v) Temperatures of the flue gases at the inlet of the particulate matter control device.

(2) Reasons you did not collect the minimum data.

(3) Corrective actions you took or are taking to obtain the required amount of data.

(e) Records of exclusions. Document each time you have excluded data from your calculation of averages for any of the following five pollutants or parameters and the reasons the data were excluded:

(1) Sulfur dioxide emissions.

(2) Nitrogen oxides emissions.

(3) Carbon monoxide emissions.

(4) Load levels of your municipal waste combustion unit.

(5) Temperatures of the flue gases at the inlet of the particulate matter control device.

(f) Records of drift and accuracy. Document the results of your daily drift tests and quarterly accuracy determinations according to Procedure 1 of appendix F of 40 CFR Part 60. Keep those records for the sulfur dioxide, nitrogen oxides, and carbon monoxide continuous emissions



monitoring systems.

(g) Records of the relationship between oxygen and carbon dioxide. If you choose to monitor carbon dioxide instead of oxygen as a diluent gas, document the relationship between oxygen and carbon dioxide, as specified in 40 CFR 60.1745.

(h) Records of calendar dates. Include the calendar date on each record.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 87: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1855, Subpart BBBB

Item 87.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 87.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall keep the following five records for each municipal waste combustion unit that uses activated carbon to control dioxins/furans or mercury emissions:

(a) Records of average carbon feed rate. Document the following five items:

(1) Average carbon feed rate in kilograms (or pounds) per hour during all stack tests for dioxins/furans and mercury emissions. Include supporting calculations in the records.

(2) For the operating parameter chosen to monitor carbon feed rate, average operating level during all stack tests for dioxins/furans and mercury emissions. Include supporting data that document the relationship between the operating parameter and the carbon feed rate.

(3) All 8-hour block average carbon feed rates in kilograms (or pounds) per hour calculated from the monitored operating parameter.



(4) Total carbon purchased and delivered to the municipal waste combustion plant for each calendar quarter. If you choose to evaluate total carbon purchased and delivered on a municipal waste combustion unit basis, record the total carbon purchased and delivered for each individual municipal waste combustion unit at your plant. Include supporting documentation.

(5) Required quarterly usage of carbon for the municipal waste combustion plant, calculated using equation 4 or 5 in 40 CFR 60.1935(f). If you choose to evaluate required quarterly usage for carbon on a municipal waste combustion unit basis, record the required quarterly usage for each municipal waste combustion unit at your plant. Include supporting calculations.

(b) Records of low carbon feed rates. Document the following three items:

(1) The calendar dates when the average carbon feed rate over an 8-hour block was less than the average carbon feed rates determined during the most recent stack test for dioxins/furans or mercury emissions (whichever has a higher feed rate).

(2) Reasons for the low carbon feed rates.

(3) Corrective actions you took or are taking to meet the 8-hour average carbon feed rate requirement.

(c) Records of minimum carbon feed rate data. Document the following three items:

(1) Calendar dates for which you did not collect the minimum amount of carbon feed rate data required under 40 CFR 60.1825.

(2) Reasons you did not collect the minimum data.

(3) Corrective actions you took or are taking to get the required amount of data.

(d) Records of exclusions. Document each time you have excluded data from your calculation of average carbon feed rates and the reasons the data were excluded.

(e) Records of calendar dates. Include the calendar date on each record.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

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Condition 88: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1860, Subpart BBBB

Item 88.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall submit the following reports, in the format as noted below:

(a) Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in Subpart BBBB.

(b) Submit all reports on paper, postmarked on or before the submittal dates in 40 CFR 60.1870, 60.1880, and 60.1895. If the Department agrees, permittee may submit electronic reports.

(c) Keep a copy of all reports required by 40 CFR 60.1875, 60.1885 and 60.1900 onsite for 5 years.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 89: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1865, Subpart BBBB

Item 89.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 89.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall refer to Tables 2, 3, 4 and 5 of 40 CFR



60, Subpart BBBB for appropriate units of measurement for reporting emissions data.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 90: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1875, Subpart BBBB

Item 90.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall include the following seven items in the initial compliance report:

(a) The emission levels measured on the date of the initial evaluation of your continuous emission monitoring systems for all of the following five pollutants or parameters as recorded in accordance with 40 CFR 60.1850(b).

(1) The 24-hour daily geometric average concentration of sulfur dioxide emissions or the 24-hour daily geometric percent reduction of sulfur dioxide emissions.

(2) For Class I municipal waste combustion units only, the 24-hour daily arithmetic average concentration of nitrogen oxides emissions.

(3) The 4-hour block or 24-hour daily arithmetic average concentration of carbon monoxide emissions.

(4) The 4-hour block arithmetic average load level of your municipal waste combustion unit.

(5) The 4-hour block arithmetic average flue gas temperature at the inlet of the particulate matter control device.

(b) The results of the initial stack tests for the following eight pollutants or parameters (use appropriate units as specified in Table 2 or 4 of 40 CFR 60, Subpart



BBBB):

- (1) Dioxins/furans.
 - (2) Cadmium.
 - (3) Lead.
 - (4) Mercury.
 - (5) Opacity.
 - (6) Particulate matter.
 - (7) Hydrogen chloride.
 - (8) Fugitive ash.
- (c) The test report that documents the initial stack tests including supporting calculations.
- (d) The initial performance evaluation of your continuous emissions monitoring systems. Use the applicable performance specifications in appendix B of 40 CFR Part 60 in conducting the evaluation.
- (e) The maximum demonstrated load of your municipal waste combustion unit and the maximum demonstrated temperature of the flue gases at the inlet of the particulate matter control device. Use values established during your initial stack test for dioxins/furans emissions and include supporting calculations.
- (f) If your municipal waste combustion unit uses activated carbon to control dioxins/furans or mercury emissions, the average carbon feed rates that you recorded during the initial stack tests for dioxins/furans and mercury emissions. Include supporting calculations as specified in 40 CFR 60.1855(a)(1) and (2).
- (g) If you choose to monitor carbon dioxide instead of oxygen as a diluent gas, documentation of the relationship between oxygen and carbon dioxide, as specified in 40 CFR 60.1745.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 91: Compliance Certification
Effective for entire length of Permit



Applicable Federal Requirement:40CFR 60.1880, Subpart BBBB

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 91.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee shall submit the annual compliance report no later than February 1 of each year that follows the calendar year in which data was collected. Permittees operating under a Title V permit must submit semiannual reports.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 92: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.1885, Subpart BBBB

Item 92.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall summarize data collected for all pollutants and parameters regulated under 40 CFR 60, Subpart BBBB. The summary must include the following twelve items:

(a) The results of the annual stack test, using appropriate units, for the following eight pollutants or parameters, as recorded under 40 CFR 60.1845(a):

- (1) Dioxins/furans.
- (2) Cadmium.
- (3) Lead.



- (4) Mercury.
 - (5) Opacity.
 - (6) Particulate matter.
 - (7) Hydrogen chloride.
 - (8) Fugitive ash.
- (b) A list of the highest average levels recorded, in the appropriate units. List those values for the following five pollutants or parameters:
- (1) Sulfur dioxide emissions.
 - (2) Nitrogen oxides emissions.
 - (3) Carbon monoxide emissions.
 - (4) Load level of the municipal waste combustion unit.
 - (5) Temperature of the flue gases at the inlet of the particulate matter air pollution control device (4-hour block average).
- (c) The highest 6-minute opacity level measured. Base the value on all 6-minute average opacity levels recorded by your continuous opacity monitoring system (40 CFR 60.1850(a)(1)).
- (d) For municipal waste combustion units that use activated carbon for controlling dioxins/furans or mercury emissions, include the following four records:
- (1) The average carbon feed rates recorded during the most recent dioxins/furans and mercury stack tests.
 - (2) The lowest 8-hour block average carbon feed rate recorded during the year.
 - (3) The total carbon purchased and delivered to the municipal waste combustion plant for each calendar quarter. If you choose to evaluate total carbon purchased and delivered on a municipal waste combustion unit basis, record the total carbon purchased and delivered for each individual municipal waste combustion unit at your plant.
 - (4) The required quarterly carbon usage of your municipal



waste combustion plant calculated using equation 4 or 5 in 40 CFR 60.1935(f). If you choose to evaluate required quarterly usage for carbon on a municipal waste combustion unit basis, record the required quarterly usage for each municipal waste combustion unit at your plant.

(e) The total number of days that you did not obtain the minimum number of hours of data for six pollutants or parameters. Include the reasons you did not obtain the data and corrective actions that you have taken to obtain the data in the future. Include data on:

- (1) Sulfur dioxide emissions.
- (2) Nitrogen oxides emissions.
- (3) Carbon monoxide emissions.
- (4) Load level of the municipal waste combustion unit.
- (5) Temperature of the flue gases at the inlet of the particulate matter air pollution control device.
- (6) Carbon feed rate.

(f) The number of hours you have excluded data from the calculation of average levels (include the reasons for excluding it). Include data for the following six pollutants or parameters:

- (1) Sulfur dioxide emissions.
- (2) Nitrogen oxides emissions.
- (3) Carbon monoxide emissions.
- (4) Load level of the municipal waste combustion unit.
- (5) Temperature of the flue gases at the inlet of the particulate matter air pollution control device.
- (6) Carbon feed rate.

(g) A notice of your intent to begin a reduced stack testing schedule for dioxins/furans emissions during the following calendar year if you are eligible for alternative scheduling (40 CFR 60.1795(a) or (b)).

(h) A notice of your intent to begin a reduced stack testing schedule for other pollutants during the following

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calendar year if you are eligible for alternative scheduling (40 CFR 60.1795(a)).

(i) A summary of any emission or parameter level that did not meet the limits specified in 40 CFR 60, Subpart BBBB.

(j) A summary of the data in paragraphs (a) through (d) of this condition from the year preceding the reporting year which gives the department a summary of the performance of the municipal waste combustion unit over a 2-year period.

(k) If you choose to monitor carbon dioxide instead of oxygen as a diluent gas, documentation of the relationship between oxygen and carbon dioxide, as specified in 40 CFR 60.1745.

(l) Documentation of periods when all certified chief facility operators and certified shift supervisors are offsite for more than 12 hours.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 93: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1890, Subpart BBBB

Item 93.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 93.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall submit a semiannual report on any recorded emission or parameter level that does not meet the requirements specified in 40 CFR 60, Subpart BBBB.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 94: Compliance Certification
Effective for entire length of Permit



Applicable Federal Requirement:40CFR 60.1895, Subpart BBBB

Item 94.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 94.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall:

(a) For data collected during the first half of a calendar year, submit its semiannual report by August 1 of that year.

(b) For data collected during the second half of the calendar year, submit its semiannual report by February 1 of the following year.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

**Condition 95: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.1900, Subpart BBBB

Item 95.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 95.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall include the following three items in any semiannual out-of-compliance report:

(a) For any of the following six pollutants or parameters that exceeded the limits specified in 40 CFR 60, Subpart BBBB, include the calendar date they exceeded the limits, the averaged and recorded data for that date, the reasons for exceeding the limits, and your corrective actions:

(1) Concentration or percent reduction of sulfur dioxide



emissions.

(2) Concentration of nitrogen oxides emissions.

(3) Concentration of carbon monoxide emissions.

(4) Load level of your municipal waste combustion unit.

(5) Temperature of the flue gases at the inlet of your particulate matter air pollution control device.

(6) Average 6-minute opacity level. The data obtained from your continuous opacity monitoring system are not used to determine compliance with the limit on opacity emissions.

(b) If the results of your annual stack tests (as recorded in 40 CFR 60.1845(a)) show emissions above the limits specified in Table 2 or 4 of Subpart BBBB as applicable for dioxins/furans, cadmium, lead, mercury, particulate matter, opacity, hydrogen chloride, and fugitive ash, include a copy of the test report that documents the emission levels and your corrective actions.

(c) For municipal waste combustion units that apply activated carbon to control dioxins/furans or mercury emissions, include the following two items:

(1) Documentation of all dates when the 8-hour block average carbon feed rate (calculated from the carbon injection system operating parameter) is less than the highest carbon feed rate established during the most recent mercury and dioxins/furans stack test (as specified in 40 CFR 60.1855(a)(1)). Include the following four items:

(i) Eight-hour average carbon feed rate.

(ii) Reasons for occurrences of low carbon feed rates.

(iii) The corrective actions you have taken to meet the carbon feed rate requirement.

(iv) The calendar date.

(2) Documentation of each quarter when total carbon purchased and delivered to the municipal waste combustion plant is less than the total required quarterly usage of carbon. If you choose to evaluate total carbon purchased and delivered on a municipal waste combustion unit basis,

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record the total carbon purchased and delivered for each individual municipal waste combustion unit at your plant.

Include the following five items:

- (i) Amount of carbon purchased and delivered to the plant.
- (ii) Required quarterly usage of carbon.
- (iii) Reasons for not meeting the required quarterly usage of carbon.
- (iv) The corrective actions you have taken to meet the required quarterly usage of carbon.
- (v) The calendar date.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 6 calendar month(s).

Condition 96: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.1905, Subpart BBBBB

Item 96.1:

The Compliance Certification activity will be performed for:

Emission Unit: I-00012

Item 96.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requests to change semiannual or annual reporting dates:

- (a) If the Department agrees, permittee may change the semiannual or annual reporting dates.
- (b) Permittee should refer to 40 CFR 60.19(c) for procedures to seek approval to change the reporting date.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and



standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

**Condition 97: Contaminant List
Effective for entire length of Permit**

Applicable State Requirement:ECL 19-0301

Item 97.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 001746-01-6
Name: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

CAS No: 007439-92-1
Name: LEAD

CAS No: 007439-97-6
Name: MERCURY

CAS No: 007440-43-9
Name: CADMIUM

CAS No: 007446-09-5
Name: SULFUR DIOXIDE

CAS No: 007647-01-0
Name: HYDROGEN CHLORIDE



Condition 99: Visible Emissions Limited
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 211.2

Item 99.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

****** Emission Unit Level ******

Condition 100: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 617.11 (d)

Item 100.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: I-00012

Item 100.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A. Continuous emission monitoring (CEM) shall be installed and operated on each furnace flue gas exhaust during incinerator operation. Equipment specification, calibration and operating procedures and data evaluation and reporting procedures must be submitted to the Department prior to replacement. All monitors and monitor locations shall be located in accordance with 40CFR60, Appendix B, except for those noted below.

B. The following parameters shall be continuously monitored:
Nitrogen Oxides (NO_x), Carbon monoxide*, Oxygen, Opacity, Steam flow, Air flow to combustion chamber, Flue gas temperature.

* Carbon monoxide monitoring system shall be installed prior to any air pollution control equipment.

C. All continuous monitoring data shall be recorded and tabulated and summarized. In accordance with 6 NYCRR Part

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201-6.5(c) (2), all continuous monitoring data shall be kept on file at the facility for a period of not less than five years.

D. A quarterly report based on the CEM data shall be submitted to the Department. The report shall include excess emissions and out-of-compliance operating parameters. The report shall detail the exact nature and cause, if known, and corrective action, if any, that was taken. Submission of such reports shall not relieve the facility from compliance with the specific emissions limitations set forth in this permit and/or regulations.

Reference Test Method: 40 CFR60, APP. B &F
Monitoring Frequency: CONTINUOUS
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).