



**Facility Identification Data**

Name: ISLIP MCARTHUR RESOURCE RECOVERY FACIL  
Address: 4001 VETERANS MEMORIAL HWY  
RONKONKOMA, NY 11779

**Owner/Firm**

Name: TOWN OF ISLIP  
Address: 655 MAIN ST  
ISLIP, NY 11751, USA  
Owner Classification: Municipal

**Permit Contacts**

Division of Environmental Permits:  
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Division of Air Resources:  
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Air Permitting Contact:  
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**Permit Description**

**Introduction**

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

**Summary Description of Proposed Project**

Application for Minor Permit Modification.

**Attainment Status**

ISLIP MCARTHUR RESOURCE RECOVERY FACIL is located in the town of ISLIP in the county of SUFFOLK. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria



air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10 $\mu$ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO <sub>2</sub> )	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NO <sub>x</sub> )**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

\* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NO<sub>x</sub>) which are ozone precursors.

\*\* NO<sub>x</sub> has a separate ambient air quality standard in addition to being an ozone precursor

### Facility Description

The Islip MacArthur Resource Recovery Facility (IMRRF) is a waste to energy plant which produces electricity through the combustion of municipal solid waste (MSW). The facility is equipped with two O'Connor rotary combustors (MWC) with a nominal design capacity of 242.5 tons per day of MSW per unit. The MSW heat input per incinerator is approximately 89 MMBtu/hr using the design Btu/lb of waste equal to 4400 MMBtu/hr. The facility is considered as a small plant under the definition used by USEPA. The IMRRF has a steam turbine generator capable of producing 12.5 MW of electricity.

All facility applicable federal and state regulations are cited in the appropriate sections of the application. The emission guidelines regulation is 40 CFR 60, subpart BBBB, with a compliance deadline of December 6, 2005. The facility is also subject to New York state regulation 6NYCRR Part 219-8 for emission guidelines and compliance times for small municipal waste combustor units constructed on or before August 30, 1999.

Each MWC has dual auxiliary burners which use No. 2 fuel oil as well as natural gas. The dual fuel auxiliary burners are used during start-up, shutdown and malfunction periods to maintain good combustion and steady state operation of the MWC units. The dual fuel burners replaced single fuel (No. 2 only) burners in 2002.

Each combustion train was originally equipped with dry sorbent (lime and tesisorb) injection (dsi) into the flue downstream of the combustor outlet and upstream of the fabric filter (ff). This combination of dsi/ff provided controls for acid gases (HCL and SO<sub>2</sub>), dioxins, and particulates.

In accordance with the subpart BBBB compliance schedule, the facility was retrofitted with a spray dry absorber for acid gas control, activated carbon injection for mercury control and mercury, and an overfire air system for carbon monoxide (CO) control. Burner fans were increased in size to improve furnace draft. The facility's electrical system was upgraded to accommodate these changes.

Truck traffic at the facility is also a source of fugitive emissions. The fugitive emissions from truck traffic are calculated using chapter 13 paved roads, from AP-42 supplement B. Ash handling is a source of particulate



emissions. Particulate emissions from waste handling are considered insignificant based on a design such that air is extracted from the tipping floor for combustion air. Particulate emissions from the ash handling system are calculated using actual stack test emission data from a facility with a similar ash process and using engineering judgement to adjust the information to account for differences in the quantity of ash generated.

The IMRRF also has two "emergency" -diesel generators (rated 9.6 million Btu/hr), as defined in 6NYCRR Part 227-2.2(b)(7) and are exempted per 6NYCRR part 201-3.2(c)(6). One is a Cummins model kta5-g/gc-1 rated at 1000 kwh or 1500 hp. The second "emergency" generator is a Mitsubishi model S12R-PTA rated at 1250 kwh. These generators may be started weekly.

Other exempt and trivial sources exist and, where possible, calculations were done to quantify emissions. Otherwise, a qualitative statement has been made regarding these sources.

**Permit Structure and Description of Operations**

The Title V permit for ISLIP MCARTHUR RESOURCE RECOVERY FACIL is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process.

A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
  - incinerator - devices which burn waste material for disposal
  - control - emission control devices
  - process - any device or contrivance which may emit air contaminants
- that is not included in the above categories.

ISLIP MCARTHUR RESOURCE RECOVERY FACIL is defined by the following emission unit(s):

Emission unit I00002 - 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.

Emission unit I00002 is associated with the following emission points (EP):  
0IAH1, 0IAH2, 0IAH3

It is further defined by the following process(es):

Process: ASH is located at FLOOR 1, Building ASHBLDG - This process includes emissions from the ash handling system at the Islip MacArthur Resource Recovery Facility. 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.

Emission unit I00012 - 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 spray dry absorbers for acid gas control. 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, baghouse inlet temperature and flue gas moisture. These provide continuous feed back on the efficiencies of air pollution control equipment.

Each MWC has dual-fuel auxiliary burners which use No. 2 oil and natural gas and replaced the oil only burners. The dual fuel burners are used during start-up, shutdown, malfunction periods to achieve the required combustion zone temperature for steady state operations of the MWC units.

Emission unit I00012 is associated with the following emission points (EP):  
0IBH1, 0IBH2

It is further defined by the following process(es):

Process: MWC is located at FLOOR 1, Building BOILERHS - This process includes combustion of municipal solid waste in the two O'connor 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.

Process: STS is located at FLOOR1, Building BOILERHS - This process includes combustion of No. 2 fuel oil and natural gas in dual-fuel auxiliary burners located in the radiant section of the combustion chambers. Either No. 2 fuel oil or natural gas will be used during the startup, shut down, malfunction and upset conditions to maintain the required combustion zone temperature for a steady state operation of the unit, and to control periodic Carbon Monoxide emission spikes in the combustion chamber to achieve good combustion.

**Title V/Major Source Status**

ISLIP MCARTHUR RESOURCE RECOVERY FACIL is subject to Title V requirements. This determination is based on the following information:

This facility exceeds the major source threshold for Hazardous Air Pollutant (HAP), any air pollutant regulated under the act, sulfur dioxides, and oxides of nitrogen (NOx) in ozone nonattainments areas classified as severe.

**Program Applicability**

The following chart summarizes the applicability of ISLIP MCARTHUR RESOURCE RECOVERY FACIL with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	YES
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO



NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	YES
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	NO
SIP	YES

**NOTES:**

**PSD**                                      Prevention of Significant Deterioration (40 CFR 52) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NSR**                                      New Source Review (6 NYCRR Part 231) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

**NESHAP**      National Emission Standards for Hazardous Air Pollutants (40 CFR 61) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's)

**MACT**                                      Maximum Achievable Control Technology (40 CFR 63) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

**NSPS**                                      New Source Performance Standards (40 CFR 60) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

**Title IV**                                      Acid Rain Control Program (40 CFR 72 thru 78) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

**Title VI**                                      Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.



**RACT** Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

**SIP** State Implementation Plan (40 CFR 52, Subpart HH) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

**Compliance Status**

Facility is in compliance with all requirements

**SIC Codes**

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code	Description
4953	REFUSE SYSTEMS

**SCC Codes**

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code	Description
1-01-012-02	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - SOLID WASTE Refuse Derived Fuel
5-01-900-06	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - AUXILIARY FUEL / NO EMISSIONS Natural Gas
5-01-001-06	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - MUNICIPAL INCINERATION SOL WST DISP-GOV:INCINERATION:MASS BURN ROTARY WATERWALL CUMBUSTOR

**Facility Emissions Summary**

In the following table, the CAS No. or Chemical Abstract Series code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which



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ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant Name	PTE		Range	
		lbs/yr			
001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	pteyear			Y
007440-36-0	ANTIMONY	pteyear		Y	
007440-38-2	ARSENIC	pteyear		Y	
068131-74-8	ASHES (RESIDUES)	pteyear		B	
000071-43-2	BENZENE	pteyear		Y	
007440-41-7	BERYLLIUM	pteyear		Y	
007440-43-9	CADMIUM	pteyear		Y	
000630-08-0	CARBON MONOXIDE	pteyear		H	
018540-29-9	CHROMIUM(VI)	pteyear		Y	
007440-48-4	COBALT	pteyear		Y	
000100-41-4	ETHYLBENZENE	pteyear		Y	
000050-00-0	FORMALDEHYDE	pteyear		Y	
0NY100-00-0	HAP	pteyear		G	
007647-01-0	HYDROGEN CHLORIDE	pteyear		Z	
007664-39-3	HYDROGEN FLUORIDE	pteyear		Y	
007439-92-1	LEAD	pteyear		Z	
007439-96-5	MANGANESE	pteyear		Y	
007439-97-6	MERCURY	pteyear		Y	
000091-20-3	NAPHTHALENE	pteyear		Y	
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS		pteyear		Y
0NY210-00-0	OXIDES OF NITROGEN	pteyear		H	
0NY075-00-0	PARTICULATES	pteyear		F	
0NY075-00-5	PM-10	pteyear		D	
130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS	pteyear			Y
0NY046-21-0	SCANDIUM (SC 046)	pteyear		A	
007782-49-2	SELENIUM	pteyear		Y	
007446-09-5	SULFUR DIOXIDE	pteyear		H	
007664-93-9	SULFURIC ACID	pteyear		B	
000108-88-3	TOLUENE	pteyear		Y	
0NY998-00-0	VOC	pteyear		F	
001330-20-7	XYLENE, M, O & P MIXT.	pteyear		Y	
007440-66-6	ZINC	pteyear		H	



#### NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

**Item A: Emergency Defense - 6NYCRR Part 201-1.5**

An emergency constitutes an affirmative defense to an action brought 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 and/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;
- (3) During the period of the emergency the facility owner and/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 and/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 and/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: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 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 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

**Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(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 D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(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 E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(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 F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(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 G: Cessation or Reduction of Permitted Activity Not a Defense - 6NYCRR Part 201-6.5(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 H: Property Rights - 6 NYCRR Part 201-6.5(a)(6)**

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

**Item I: Severability - 6 NYCRR Part 201-6.5(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 J: Permit Shield - 6 NYCRR Part 201-6.5(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 K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)**

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is 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 this 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 Part 201-6.7 and Part 621.



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 is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**Item L: Permit Exclusion - ECL 19-0305**

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item M: Federally Enforceable Requirements - 40 CFR 70.6(b)**

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**



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**Item A: 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.

**Regulatory Analysis**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Regulation</b>	<b>Condition</b>	<b>Short Description</b>
FACILITY		106	Powers and Duties of the Department with respect to air pollution control
I-00012	40CFR 52-A.21	54	Prevention of Significant Deterioration
I-00012	40CFR 52-A.21(j)(2)	1-3, 55, 56, 57, 58, 59	Best Available Control Technology (BACT) (see narrative)
FACILITY	40CFR 60-BBBB	33	Applicability of 40 CFR 60, Subpart BBBB Conditions
I-00002	40CFR 60-BBBB	46	Applicability of 40 CFR 60, Subpart BBBB Conditions
I-00012	40CFR 60-BBBB	64	Applicability of 40 CFR 60, Subpart BBBB Conditions
FACILITY	40CFR 60-BBBB.1650	34	Plant Specific Training Course
FACILITY	40CFR 60-BBBB.1655	35	
FACILITY	40CFR 60-BBBB.1660	36	Information that must be included in the Plant-Specific Operating Manual.
FACILITY	40CFR 60-BBBB.1665	37	
FACILITY	40CFR 60-BBBB.1670	38	Location for keeping the plant specific operating manual
FACILITY	40CFR 60-BBBB.1675	39	Operator Certification For Chief Facility Operator and Shift Supervisor - Class I & Class II MWC Units
FACILITY	40CFR 60-BBBB.1680	40	Employees that may operate MWC units
FACILITY	40CFR 60-BBBB.1685	41	Operation of MWC Unit In



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I-00012	40CFR 60-BBBB.1690	65, 66	Absence of Certified Operator(s)
I-00012	40CFR 60-BBBB.1695	67	MWC Unit Operating Practices Requirements
I-00002	40CFR 60-BBBB.1705 (a) (1)	47	Operating requirements during periods of startup, shutdown, and malfunction.
I-00012	40CFR 60-BBBB.1705 (a) (1)	68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79	Emission Unit Permissible Emissions - Class I MWC Units
I-00012	40CFR 60-BBBB.1705 (a) (1)	68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79	Emission Unit Permissible Emissions - Class I MWC Units
I-00012	40CFR 60-BBBB.1705 (a) (3)	80	Carbon Monoxide emission limits for Mass burn rotary waterwall Class I and Modular starved air Class II, small MWC plants.
I-00012	40CFR 60-BBBB.1710	81	Emission Limits During Periods of Start-Up, Shutdown, and Malfunction
I-00012	40CFR 60-BBBB.1720	82	Continuous Emission Monitoring Systems (CEMs) for Gaseous Pollutants.
I-00012	40CFR 60-BBBB.1730	83	Continuous Emission Monitoring System Data Collection
I-00012	40CFR 60-BBBB.1750	84	
I-00012	40CFR 60-BBBB.1755	85	Conversion of 1 hr. arithmetic averages into appropriate averaging time and units
I-00012	40CFR 60-BBBB.1760	86	Continuous Opacity Monitoring System Requirements
I-00012	40CFR 60-BBBB.1775	87	Stack Testing Requirements
I-00012	40CFR 60-BBBB.1795 (b)	88	Alternative Dioxins/Furans Stack Testing Schedule - Class I and Class II MWC Units
I-00012	40CFR 60-BBBB.1805	89	MWC Load Level, Temperature and Carbon Feed Rate Monitoring Requirements
I-00012	40CFR 60-BBBB.1830	90	Types of records that must be kept
I-00012	40CFR 60-BBBB.1835	91	Operator training and certification records
I-00012	40CFR 60-BBBB.1840	92	
I-00012	40CFR 60-BBBB.1845	93	Records for continuously monitored pollutants or parameters.
I-00012	40CFR 60-BBBB.1850	94	
I-00012	40CFR 60-BBBB.1855	95	Records for municipal waste combustion units that use activated carbon to control dioxins/furans or mercury emissions.
I-00002	40CFR 60-BBBB.1860	48	Reports that must be submitted and required format.
I-00012	40CFR 60-BBBB.1860	96	Reports that must be submitted and required format.
I-00012	40CFR 60-BBBB.1865	97	Appropriate units of measurement for reporting emissions data.



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I-00012	40CFR 60-BBBB.1875	98	Contents of the initial compliance report.
I-00012	40CFR 60-BBBB.1880	99	Submission of annual compliance report
I-00012	40CFR 60-BBBB.1885	100	Contents of annual compliance report.
I-00012	40CFR 60-BBBB.1890	101	Reporting requirements for non-compliance with the requirements of Subpart BBBB.
I-00012	40CFR 60-BBBB.1895	102	Semiannual report submission dates.
I-00012	40CFR 60-BBBB.1900	103	Contents for semiannual out-of-compliance report.
I-00012	40CFR 60-BBBB.1905	104	Requests to change semiannual or annual reporting dates.
I-00012	40CFR 60-Db.43b(g)	61	Standard for Particulate Matter Exemption.
I-00012/-/STS	40CFR 60-Db.44b(c)	105	Standard for Nitrogen Oxides Firing Mixtures of Coal, Oil, and Natural Gas.
I-00012	40CFR 60-Db.49b(d)	62	Reporting and Recordkeeping Requirements.
I-00012	40CFR 60-Db.49b(h)	63	Reporting and Recordkeeping Requirements.
FACILITY	40CFR 68	21	Chemical accident prevention provisions
FACILITY	40CFR 82-F	22	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.3	23	
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	
I-00012	6NYCRR 200.7	49	
FACILITY	6NYCRR 201-1.4	107	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	
FACILITY	6NYCRR 201-1.8	1-1	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	24, 42, 43	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5(a)(4)	15	
FACILITY	6NYCRR 201-6.5(a)(7)	2	
FACILITY	6NYCRR 201-6.5(a)(8)	16	
FACILITY	6NYCRR 201-6.5(c)	3	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5(c)(2)	4	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5(c)(3)(ii)	5	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5(d)(5)	17	
FACILITY	6NYCRR 201-6.5(e)	6	
I-00012	6NYCRR 201-6.5(f)(1)	50	Alternate operating



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			scenarios
FACILITY	6NYCRR 201-6.5 (f) (6)	18	
FACILITY	6NYCRR 202-1.1	19	
FACILITY	6NYCRR 202-1.2	25	
FACILITY	6NYCRR 202-1.3	26, 27, 28	
FACILITY	6NYCRR 202-1.4	29	Separate emission tests by the commissioner.
FACILITY	6NYCRR 202-1.5	30	
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	108	General Prohibitions - air pollution prohibited.
FACILITY	6NYCRR 211.3	20	General Prohibitions - visible emissions limited
FACILITY	6NYCRR 215	9	
I-00002	6NYCRR 219-8.1	44	Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed on or before August 30, 1999
I-00012	6NYCRR 219-8.1	1-4	Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed on or before August 30, 1999
I-00002	6NYCRR 219-8.3	45	
I-00012	6NYCRR 219-8.3	52	
FACILITY	6NYCRR 225-1.2 (a) (2)	31	Sulfur in Fuel Limitations Post 12/31/87.
FACILITY	6NYCRR 225-1.6 (b)	1-2, 32	
I-00012	6NYCRR 225-1.8 (a)	53	Reports, sampling and analysis.
I-00012	6NYCRR 617.11 (d)	109	Decision-making and findings requirements

**Applicability Discussion:**

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-301.

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6NYCRR Part 200-.6

Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6NYCRR Part 200-.7

Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively



6NYCRR Part 201-1.4

This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6NYCRR Part 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 201-3.2(a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, 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.

6NYCRR Part 201-3.3(a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to 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.

6NYCRR Part 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6NYCRR 201-6.5(a)(4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the



permit.

6NYCRR 201-6.5(a)(7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6NYCRR 201-6.5(a)(8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6NYCRR Part 201-6.5(c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6NYCRR Part 201-6.5(c)(2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6NYCRR Part 201-6.5(c)(3)(ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6NYCRR 201-6.5(d)(5)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6NYCRR Part 201-6.5(e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6NYCRR 201-6.5(f)(6)

This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.



6NYCRR Part 202-1.1

This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6NYCRR Part 202-2.1

Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.

6NYCRR Part 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6NYCRR Part 211-2

This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

6 NYCRR Part 211.3

This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.

6 NYCRR Part 215

Prohibits open fires at industrial and commercial sites.

40 CFR Part 68.

This Part lists the regulated substances and their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

**Facility Specific Requirements**

In addition to Title V, ISLIP MCARTHUR RESOURCE RECOVERY FACIL has been determined to be subject to the following regulations:



40CFR 52-A.21

This citation applies to facilities that are subject to Prevention of Significant Deterioration provisions; ie: facilities that are located in an attainment area and that emit pollutants which are listed in 40 CFR 52.21(b)(23)(i) .

40CFR 52-A.21 (j) (2)

BACT determinations are made on a case-by-case basis and can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination will have to be entered into the **special** permit conditions, separately by the permit reviewer.

40CFR 60-BBBB

This regulation outlines the federal Emission Guidelines and Compliance Times (40 CFR Part 60, Subpart BBBB) for Small Municipal Waste Combustion (MWC) Class I and Class II Units Constructed on or before August 30, 1999. It applies to each municipal waste combustor unit that has the capacity to combust at least 35 tons per day but no more than 250 tons per day of municipal solid waste.

Class I units are those small MWC units that are located at an MWC combustor plant with an aggregate plant combustion capacity greater than 250 tons per day of municipal solid waste.

Class II units are those small MWC units that are located at an MWC combustor plant with an aggregate plant combustion capacity less than or equal to 250 tons per day of municipal solid waste.

40CFR 60-BBBB.1650

This condition describes who must complete the municipal waste combustor operator training course, and by when.

40CFR 60-BBBB.1655

This condition describes the MWC employees who are required to complete a plant-specific training course.

40CFR 60-BBBB.1660

This condition describes what plant-specific training must be provided.

40CFR 60-BBBB.1665

This section describes eleven (11) items which the Permittee must include in the plant-specific operating manual:

:

40CFR 60-BBBB.1670

This condition indicates where the plant specific operating manual should be located, and the parties that the manual should be available for review or inspection by.

40CFR 60-BBBB.1675

This section describes the type and the timeframe of operator certification required for all chief facility operators and shift supervisors at Class I & Class II MWC units.

40CFR 60-BBBB.1680

This section describes employees that may operate MWC units

40CFR 60-BBBB.1685



tem ###.1:

This section describes the operational requirements that must be followed if the certified chief facility operator and certified shift supervisor are both temporally off-site. Specific operational and notification requirements are specified depending on the length of time that a certified chief facility operator and certified shift supervisor are off-site.

40CFR 60-BBBB.1690

This section describes the municipal waste combustor (MWC) operating practices requirements for MWC unit load level, activated carbon feed rate and the particulate matter control device

40CFR 60-BBBB.1695

This section describes operating requirements during periods of startup, shutdown, and malfunction.

40CFR 60-BBBB.1705 (a) (1)

This section sets forth the permissible emissions from Class I small municipal waste combustor units for cadmium, lead, mercury, carbon monoxide, nitrogen oxides, sulfur dioxide, hydrogen chloride, dioxins / furans, particulate matter, opacity and fugitive ash emissions.

40CFR 60-BBBB.1705 (a) (3)

This section sets forth the permissible emissions from Class I and Class II small municipal waste combustor units for carbon monoxide.

40CFR 60-BBBB.1710

This section describes the emission limits during periods of start-up, shutdown, and malfunction.

40CFR 60-BBBB.1720

This section describes the continuous emission monitoring systems which must be installed for the gaseous pollutants (oxygen (or carbon dioxide), sulfur dioxide, and carbon monoxide).

40CFR 60-BBBB.1730

This section describes the operating / evaluation requirements for continuous emission monitoring systems that measure oxygen (or carbon dioxide), sulfur dioxide, nitrogen oxides (Class I municipal waste combustion units only), and carbon monoxide.

40CFR 60-BBBB.1750

This section sets forth continuous emission monitoring systems data collection requirements.

40CFR 60-BBBB.1755

This section describes how to convert 1 hr. arithmetic averages into appropriate averaging time and units

40CFR 60-BBBB.1760

This section sets forth continuous opacity monitoring system requirements.

40CFR 60-BBBB.1775

This section sets forth the stack testing requirements for emissions of dioxins/furans, cadmium, lead, mercury, particulate matter, opacity, hydrogen chloride, and fugitive ash.

40CFR 60-BBBB.1795 (b)

This section sets forth the requirements for alternative dioxins/furans emissions stack testing at Class I small municipal waste combustor plants. The section allows the Permittee to test less often for dioxins/furans emissions if all municipal waste combustion units have demonstrated a level of dioxins/furans emissions less than or equal to 15 nanograms per dry standard cubic meter (total mass), for 2 consecutive years.



40CFR 60-BBBB.1805

This section sets forth municipal waste combustor load level, temperature and carbon feed rate monitoring requirements:

40CFR 60-BBBB.1830

This section sets forth the recordkeeping requirements (40 CFR 60.1830 through 60.1855) which the permittee must comply with.

40CFR 60-BBBB.1835

This section describes the location for keeping records and the duration that records shall be kept.

40CFR 60-BBBB.1840

This section describes the records that the permittee must keep for operator training and certification.

40CFR 60-BBBB.1845

This section describes the records that must be kept for stack tests.

40CFR 60-BBBB.1850

This section describes the records that must be kept for continuously monitored pollutants or parameters.

40CFR 60-BBBB.1855

This section describes the records that must be kept for municipal waste combustion units that use activated carbon to control dioxins/furans or mercury emissions.

40CFR 60-BBBB.1860

This section sets forth the reporting requirements (40 CFR 60.1860 through 60.1905) which the permittee must comply with.

40CFR 60-BBBB.1865

This section specifies the appropriate units of measurement for reporting emissions data.

40CFR 60-BBBB.1875

This section describes the information that must be included in the permittee's initial compliance report.

40CFR 60-BBBB.1880

This section describes when the permittee must submit its annual compliance report.

40CFR 60-BBBB.1885

This section describes the information that the permittee must include in its annual compliance report.

40CFR 60-BBBB.1890

This section sets forth the reporting requirements that the Permittee must follow if it finds that its facility is out of compliance with the requirements of Subpart BBBB.

40CFR 60-BBBB.1895

This section sets forth the dates that the permittee must submit its required semiannual compliance reports.

40CFR 60-BBBB.1900

This section describes the information that the permittee must include in any semiannual out-of-compliance report.



40CFR 60-BBBB.1905

This section describes the requirements that must be met to change the semiannual or annual reporting dates.

40CFR 60-Db.43b (g)

This regulation specifies that the particulate matter and opacity standards apply at all times, except during periods of startup, shutdown or malfunction.

40CFR 60-Db.44b (c)

This regulation limits the annual capacity factor to 10 percent or less if the affected facility combusts oil or mixtures of with natural gas and municipal solid waste type of fuel.

40CFR 60-Db.49b (d)

This subdivision requires reporting and recordkeeping for affected steam generating units - annual fuel capacity factors.

40CFR 60-Db.49b (h)

The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for each calendar quarter. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

6NYCRR 200 .3

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

6NYCRR 201-6.5 (c) (3) (ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6NYCRR 201-6.5 (f) (1)

Operational Flexibility plan for the facility

6NYCRR 202-1.2

This regulation specifies that the department is to be notified at least 30 days in advance of any required stack test. The notification is to include a list of the procedures to be used that are acceptable to the department. Finally, free access to observe the stack test is to be provided to the department's representative.

6NYCRR 202-1.3

This regulation requires that any emission testing, sampling and analytical determination used to determine compliance must use methods acceptable to the department. Acceptable test methods may include but are not limited to the reference methods found in 40 CFR Part 60 appendix A and Part 61, appendix B. Alternate methods may be also be used provided they are determined to be acceptable by the department. Finally, unless otherwise specified, all emission test reports must be submitted within 60 days after completion of testing.

6NYCRR 202-1.4

This regulation allows the department discretion to conduct separate or additional emission tests, including preparation of the testing site, at the source owner's expense, to determine compliance.



6NYCRR 202-1.5

This rule prohibits the concealment of an emission by the use of air or other gaseous diluents (diluting agents) to achieve compliance with an emission standard which is based on the concentration of a contaminant in the gases emitted through a stack.

6NYCRR 219-8.1

This regulation incorporates by reference the federal Emission Guidelines and Compliance Times (40 CFR Part 60, Subpart BBBB) for Small Municipal Waste Combustion (MWC) Class I and Class II Units Constructed on or before August 30, 1999. It applies to each municipal waste combustor unit that has the capacity to combust at least 35 tons per day but no more than 250 tons per day of municipal solid waste.

Class I units are those small MWC units that are located at an MWC combustor plant with an aggregate plant combustion capacity greater than 250 tons per day of municipal solid waste.

Class II units are those small MWC units that are located at an MWC combustor plant with an aggregate plant combustion capacity less than or equal to 250 tons per day of municipal solid waste.

6NYCRR 219-8.3

Compliance Schedule for 40CFR60 Subpart BBBB

6NYCRR 225-1.2 (a) (2)

This regulation prohibits any person from selling, offering for sale, purchasing or using any fuel which contains sulfur in a quantity exceeding the limitations set forth in Table 1, Table 2, or Table 3 of this section.

6NYCRR 225-1.6 (b)

This regulation requires that as of January 1, 1988 any person who buys, sells, offer for sale, or uses fuel must comply with the percent sulfur requirements specified in section 6 NYCRR 225-1.2 .

6NYCRR 225-1.8 (a)

Upon request the owner or operator of a facility which purchases and fires coal or oil shall submit reports to the commissioner containing a fuel analysis, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1. All records shall be available for a minimum of three years

6NYCRR 617 .11 (d)

617.11 DECISION-MAKING AND FINDINGS REQUIREMENTS.

(a) Prior to the lead agency's decision on an action that has been the subject of a final EIS, it shall afford agencies and the public a reasonable time period (not less than 10 calendar days) in which to consider the final EIS before issuing its written findings statement. If a project modification or change of circumstance related to the project requires a lead or involved agency to substantively modify its decision, findings may be amended and filed in accordance with subdivision 617.12(b) of this Part.

(b) In the case of an action involving an applicant, the lead agency's filing of a written findings statement and decision on whether or not to fund or approve an action must be made within 30 calendar days after the filing of the final EIS.

(c) No involved agency may make a final decision to undertake, fund, approve or disapprove an action that has been the subject of a final EIS, until the time period provided in subdivision 617.11(a) of this section has passed and the agency has made a written findings statement. Findings and a decision may be made simultaneously.

(d) Findings must:

(1) consider the relevant environmental impacts, facts and conclusions disclosed in the final

EIS;



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(2) weigh and balance relevant environmental impacts with social, economic and other considerations;

(3) provide a rationale for the agency's decision;

(4) certify that the requirements of this Part have been met;

(5) certify that consistent with social, economic and other essential considerations from among the reasonable alternatives available, the action is one that avoids or minimizes adverse environmental impacts to the maximum extent practicable, and that adverse environmental impacts will be avoided or minimized to the maximum extent practicable by incorporating as conditions to the decision those mitigative measures that were identified as practicable.

(e) No state agency may make a final decision on an action that has been the subject of a final EIS and is located in the coastal area until the agency has made a written finding that the action is consistent with applicable policies set forth in 19 NYCRR 600.5. When the Secretary of State has approved a local government waterfront revitalization program, no state agency may make a final decision on an action, that is likely to affect the achievement of the policies and purposes of such program, until the agency has made a written finding that the action is consistent to the maximum extent practicable with that local waterfront revitalization program.

**Compliance Certification**

Summary of monitoring activities at ISLIP MCARTHUR RESOURCE RECOVERY FACIL:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
I-00012	54	record keeping/maintenance procedures
I-00012	1-3	intermittent emission testing
I-00012	55	intermittent emission testing
I-00012	56	intermittent emission testing
I-00012	57	intermittent emission testing
I-00012	58	intermittent emission testing
I-00012	59	intermittent emission testing
I-00012	65	monitoring of process or control device parameters as surrogate
I-00012	66	record keeping/maintenance procedures
I-00012	67	record keeping/maintenance procedures
I-00002	47	monitoring of process or control device parameters as surrogate
I-00012	68	intermittent emission testing
I-00012	69	intermittent emission testing
I-00012	70	intermittent emission testing
I-00012	71	intermittent emission testing
I-00012	72	intermittent emission testing
I-00012	73	intermittent emission testing
I-00012	74	intermittent emission testing
I-00012	75	continuous emission monitoring (cem)
I-00012	76	monitoring of process or control device parameters as surrogate
I-00012	77	intermittent emission testing
I-00012	78	continuous emission monitoring (cem)
I-00012	79	continuous emission monitoring (cem)
I-00012	80	continuous emission monitoring (cem)
I-00012	81	record keeping/maintenance



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I-00012	82	procedures record keeping/maintenance
I-00012	83	procedures record keeping/maintenance
I-00012	84	procedures record keeping/maintenance
I-00012	85	procedures record keeping/maintenance
I-00012	86	procedures record keeping/maintenance
I-00012	87	procedures record keeping/maintenance
I-00012	88	intermittent emission testing
I-00012	89	procedures record keeping/maintenance
I-00012	90	procedures record keeping/maintenance
I-00012	91	procedures record keeping/maintenance
I-00012	92	procedures record keeping/maintenance
I-00012	93	procedures record keeping/maintenance
I-00012	94	procedures record keeping/maintenance
I-00012	95	procedures record keeping/maintenance
I-00002	48	procedures record keeping/maintenance
I-00012	96	procedures record keeping/maintenance
I-00012	97	procedures record keeping/maintenance
I-00012	98	procedures record keeping/maintenance
I-00012	99	procedures record keeping/maintenance
I-00012	100	procedures record keeping/maintenance
I-00012	101	procedures record keeping/maintenance
I-00012	102	procedures record keeping/maintenance
I-00012	103	procedures record keeping/maintenance
I-00012	104	procedures record keeping/maintenance
I-00012/-/STS	105	monitoring of process or control device parameters as surrogate
I-00012	62	procedures record keeping/maintenance
I-00012	63	procedures record keeping/maintenance
I-00012	49	procedures record keeping/maintenance
FACILITY	5	procedures record keeping/maintenance
FACILITY	6	procedures record keeping/maintenance
I-00012	50	procedures record keeping/maintenance
FACILITY	7	procedures record keeping/maintenance
FACILITY	31	work practice involving specific operations
FACILITY	1-2	procedures record keeping/maintenance
I-00012	53	procedures record keeping/maintenance
I-00012	109	procedures record keeping/maintenance



### **Basis for Monitoring**

Basis of Monitoring

Islip Resource Recovery Facility

This Title V Permit specifies special operating/monitoring conditions, recordkeeping and reporting required to verify compliance with the applicable requirements. The basis for monitoring for these requirements is as follows:

The facility is equipped with two O'Connor rotary combustors (MWC) with a nominal design capacity of 242.5 tons per day of MSW per unit. The MSW heat input per incinerator is approximately 89 MMBtu/hr using the design Btu/lb of waste equal to 4400 MMBtu/hr.

Each MWC has dual auxiliary burners which use No. 2 fuel oil as well as natural gas. The dual fuel auxiliary burners are used during start-up, shutdown and malfunction periods to maintain good combustion and steady state operation of the MWC units. The facility is being retrofitted with a spray dry absorber for acid gas control, activated carbon injection for mercury control and an overfire air system for carbon monoxide (CO) control. Burner fans are being increased in size to improve furnace draft.

This renewal incorporates requirements of the 40CFR60, Subpart BBBB which establish limits on opacity, CO, NO<sub>x</sub>, SO<sub>2</sub>, HCL, dioxins/furans, mercury, lead, cadmium and fugitive emissions. This regulation also requires monitoring of the steam load level, carbon feed rate and temperature of the inlet to particulate control devices.

Continuous Emission Monitoring Systems (CEMS) are in place to monitor the Opacity, CO, SO<sub>2</sub>, SO<sub>2</sub> reduction, NO<sub>x</sub> and O<sub>2</sub> emissions from each Combustor. The facility is equipped with continuous monitoring of the carbon feed rate, the steam load level, boiler combustion temperature and temperature of the inlet to baghouse. MSW combusted will also be monitored on a monthly basis. Quarterly reports are submitted which document instances where emissions exceed permit limits and when the CEMs are not operating.

Annual stack testing is required to determine compliance with these dioxins/furans, HCL, lead cadmium and mercury. Compliance with the carbon monoxide limit, which is monitored continuously, is a strong indicator of dioxins/furans control.

Additionally, monitoring of steam load level as demonstrated during annual stack test and combustion temperature will ensure dioxins/furans destruction. The inlet to baghouse temperature will ensure condensation and removal of the heavy metals in the baghouse.

Monitoring of SO<sub>2</sub> reduction is a strong indicator of the reduction of other acid gases such Hydrogen Fluoride and Hydrogen Chloride.

Opacity is an indicator of particulate and other gaseous emissions. Facility is limited to a 10 percent opacity, as prescribed by 40CFR60, Subpart BBBB.

New York State Department of Environmental Conservation



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Renewal Number: 1

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