



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 5-5330-00038/00021
Mod 0 Effective Date: 07/24/2013 Expiration Date: 07/23/2023
Mod 1 Effective Date: 11/03/2014 Expiration Date: 07/23/2023
Mod 2 Effective Date: 03/28/2016 Expiration Date: 07/23/2023

Permit Issued To: ENVIRONMENTAL SOIL MANAGEMENT OF NY LLC
304 TOWPATH RD
FORT EDWARD, NY 12828-1754

Contact: PETER HANSEN
ESMI OF NEW YORK
304 TOWPATH ROAD
FORT EDWARD, NY 12828
(518) 747-5500

Facility: ENVIRONMENTAL SOIL MANAGEMENT OF N Y
304 TOWPATH RD
FORT EDWARD, NY 12828

Description:
This facility is a thermal treatment facility for the recycling of petroleum and non-petroleum contaminated soils and media using one stationary LTTDU and one mobile LTTDU. Hydrocarbon contaminants are removed using thermal desorption in either of two rotary kilns. Each LTTDU is equipped with a thermal oxidizer for volatile organic compound (VOC) control and a baghouse for particulate matter control. Recycled material is analyzed and can be returned to the client or reused in accordance with beneficial reuse determinations.

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: KEVIN R BLISS
NYSDEC - WARRENSBURG SUBOFFICE
232 GOLF COURSE RD
WARRENSBURG, NY 12885-1172

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
 - 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 5 HEADQUARTERS



DEC GENERAL CONDITIONS
****** General Provisions ******
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 expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for 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 2-1: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 2-1.1:

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

Item 2-1.3:

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 5 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 5 Headquarters
Division of Environmental Permits
Route 86, PO Box 296
Ray Brook, NY 12977-0296
(518) 897-1234

New York State Department of Environmental Conservation

Permit ID: 5-5330-00038/00021

Facility DEC ID: 5533000038



Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

IDENTIFICATION INFORMATION

Permit Issued To: ENVIRONMENTAL SOIL MANAGEMENT OF NY LLC
304 TOWPATH RD
FORT EDWARD, NY 12828-1754

Facility: ENVIRONMENTAL SOIL MANAGEMENT OF N Y
304 TOWPATH RD
FORT EDWARD, NY 12828

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

Mod 0 Permit Effective Date: 07/24/2013

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Mod 1 Permit Effective Date: 11/03/2014

Permit Expiration Date: 07/23/2023

Mod 2 Permit Effective Date: 03/28/2016

Permit Expiration Date: 07/23/2023



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

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- *2-1 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *1-1 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *2-2 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *2-3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 2-4 6 NYCRR Subpart 202-1: Compliance Demonstration
- 2-5 6 NYCRR 202-1.2: Notification
- 9 6 NYCRR 211.1: Air pollution prohibited
- 10 6 NYCRR 212.4 (c): Compliance Demonstration
- 1-3 6 NYCRR 212.6 (a): Compliance Demonstration
- 1-11 6 NYCRR 212.9: Compliance Demonstration
- 1-13 6 NYCRR 212.9 (b): Compliance Demonstration
- 12 6 NYCRR 212.9 (d): Compliance Demonstration
- 1-14 6 NYCRR 225-1.2 (f): Compliance Demonstration
- 1-15 6 NYCRR 225-1.2 (h): Compliance Demonstration
- 1-16 6 NYCRR 225-1.2 (i): Compliance Demonstration
- 13 6 NYCRR 225-2.3 (b) (1) (ii): Compliance Demonstration
- 1-17 6 NYCRR 225-2.4 (b): Compliance Demonstration
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- 1-19 6 NYCRR 225-2.4 (b): Compliance Demonstration
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STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

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- 15 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 16 6 NYCRR Subpart 201-5: Emission Unit Definition
- 17 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 18 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 19 6 NYCRR 211.2: Visible Emissions Limited
- 2-6 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 2-7 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 2-8 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 2-9 6 NYCRR 212-2.3 (b): Compliance Demonstration
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Emission Unit Level

- 20 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 21 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,



required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6 NYCRR 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 F: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item H: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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.

Item I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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.

Item J: Required Emission Tests - 6 NYCRR 202-1.1



An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item K: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

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.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 2: Facility Permissible Emissions



Effective between the dates of 07/24/2013 and 07/23/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 2.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

per year	CAS No: 007446-09-5 (From Mod 2)	PTE: 198,000 pounds
	Name: SULFUR DIOXIDE	
per year	CAS No: 007647-01-0 (From Mod 2)	PTE: 19,960 pounds
	Name: HYDROGEN CHLORIDE	

Condition 2-1: Capping Monitoring Condition
Effective between the dates of 03/28/2016 and 07/23/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 2-1.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR 201-6.1 (a)

Item 2-1.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 2-1.3:

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.

Item 2-1.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 2-1.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement,

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for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 2-1.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 2-1.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Actual chlorinated compound concentrations in feed soils are used to calculate emissions. All chlorine is assumed to convert to HCl.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: SOIL

Parameter Monitored: CHLORINE

Upper Permit Limit: 9.70 tons per year

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).

Condition 1-1: Capping Monitoring Condition

Effective between the dates of 11/03/2014 and 07/23/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1-1.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 201-6

Item 1-1.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 1-1.3:

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.

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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.

Item 1-1.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 1-1.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 1-1.6:

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

Emission Unit: U-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 1-1.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Coal Tar contaminated soils must be blended with low sulfur contaminated soils in accordance with the O&M Manual and SW Permit to bring the %S in the hydrocarbon portion of the soil fed to the remediation units to less than 1.5%S.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 2-2: Capping Monitoring Condition

Effective between the dates of 03/28/2016 and 07/23/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 2-2.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to

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the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR 201-6.1 (a)

Item 2-2.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 2-2.3:

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.

Item 2-2.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 2-2.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 2-2.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 2-2.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility will limit emissions of sulfur dioxide from all sources to less than 198,000 pounds or less per 12-month period. Emissions will be calculated based upon sulfur content in the soils remediated to be determined utilizing one of the following methods: regulatory standard (State or Federal) for contaminant, analytical methodology in accordance with NYSDEC Permit No. 5-5330-00038/00019, or fuel source specification, and the regulated sulfur content of the waste fuel and/or oil burned in the treatment units.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).

Condition 2-3: Capping Monitoring Condition
Effective between the dates of 03/28/2016 and 07/23/2023

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Replaces Condition(s) 1-2

Item 2-3.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 201-6

Item 2-3.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 2-3.3:

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.

Item 2-3.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 2-3.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 2-3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

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Item 2-3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Allowable annual emissions of VOC from Emission Unit 00001 is not to exceed 40 tons per year in order to assure total facility wide emissions remain below 50 tpy.

Emissions are to be calculated based upon Actual VOCs fed to the kiln multiplied time (1- the most recent %DRE/100).

At this time, the most recent %DREs are 99.99 for the stationary treatment unit and 99.72 for the portable treatment unit.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).

Condition 2-4: Compliance Demonstration

Effective between the dates of 03/28/2016 and 07/23/2023

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 2-4.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
CAS No: 0NY998-00-0	VOC
CAS No: 001336-36-3	POLYCHLORINATED BIPHENYL

Item 2-4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NYSDEC and ESMI worked to identify reasonable criteria by which a contaminated media with the primary contaminant being PCB's would trigger the completion of a Proof of Performance (PoP) test. Through this effort, conditions which would invoke the requirement for the completion of a PCB PoP test were identified. This testing shall demonstrate the overall destruction and removal efficiency (DRE) for PCB and the formation of D/F on a pounds D/F emitted per pound of PCB input basis. The conditions are as follows:



- The primary contaminant, the reason the media is being thermally treated, is PCBs with a concentration greater than 1ppm, and

- The total mass of PCBs to be fed to the TDU during the PoP test is greater than 0.825 pounds

This does not include soils containing an average of 1.0 ppm or less total PCBs that, once treated, may be beneficially used in accordance with BUD #610-5-58 or with another pertinent BUD granted pursuant to 6 NYCRR Part 360.

Example: Manufactured Gas Plant (MGP) contaminated soil with a 1.1 ppm PCB hit in one sample set but the average concentration in the incoming soil is < 1 ppm.

Upon media receipt at ESMI, confirmation sampling would be completed to confirm the concentration of PCBs exists in the media to meet the greater than 1ppm and the mass of 0.825 pounds.

- If the PCB concentration in the media averages less than 5ppm for the initial PoP test, ESMI would be required to perform a subsequent test, in the future, if annual feed of PCBs exceeds 500 pounds on a 12 month rolling basis. This testing is to be performed with soils having an average PCB concentration between 5 and 45 ppm. This testing would again have to demonstrate the overall DRE for PCB and the formation of D/F on a pounds D/F emitted per pound of PCB input basis.

- The testing, as described above, plus that for overall DRE of VOC, shall be required once per permit term (once every ten years).

- If PCB average concentrations in the test media exceeds 5ppm in the initial PoP test, ESMI would not be required to

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complete the
subsequent testing described above.

- Test scheduling will be coordinated with the NYSDEC and
the
testing contractor as expeditiously as possible once
ESMI
has verified the above criteria for testing has been
met.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 2-5: Notification
Effective between the dates of 03/28/2016 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 2-5.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his representative, free access to observe stack testing being conducted by such person.

Condition 9: Air pollution prohibited
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 211.1

Item 9.1:

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 10: Compliance Demonstration
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 212.4 (c)

Item 10.1:

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

Emission Unit: U-00001
Process: 001

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Emission Unit: U-00001
Process: 003

Emission Unit: U-00002
Process: 002

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing will be conducted at the discretion of the Department.

Upper Permit Limit: 0.05 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-3: Compliance Demonstration
Effective between the dates of 11/03/2014 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 212.6 (a)

Item 1-3.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 1-3.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time



during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at any time there are visible stack emission which have the potential to exceed 20%. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed 20% continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-11: Compliance Demonstration

Effective between the dates of 11/03/2014 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 212.9

Item 1-11.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

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Item 1-11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Carbon bed monitoring shall be performed once per month with a PID. When the PID meter indicates VOC breakthrough, maintenance shall be performed. Maintenance includes cleaning, adjusting or changing-out the activated carbon.. After maintenance, carbon beds must operate at 99% control efficiency or better. VOC readings less than the accuracy of the PID (considered 2 ppm or 10% of recorded value which ever is greater) will not be considered breakthrough.

Reference Test Method: Method 21

Monitoring Frequency: MONTHLY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-13: Compliance Demonstration

Effective between the dates of 11/03/2014 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 212.9 (b)

Item 1-13.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 1-13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Coal Tar contaminated soils must be blended with low sulfur contaminated soils to bring the %S in the hydrocarbon portion of the soil fed to the remediation units to less than 1.5%.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: SOIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 1.5 percent by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL

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CHANGE
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 12: Compliance Demonstration
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 212.9 (d)

Item 12.1:

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

Emission Unit: U-00001
Process: 004

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than
0.030 grains of particulates per cubic foot of exhaust
gas, expressed at standard conditions on a dry gas basis.
Compliance testing will be conducted at the discretion of
the Department.

Upper Permit Limit: 0.03 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-14: Compliance Demonstration
Effective between the dates of 11/03/2014 and 07/23/2023

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

Item 1-14.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS



Monitoring Description:

Owners and/or operators of commercial, industrial, or residential emission sources that fire number two heating oil on or after July 1, 2012 are limited to the purchase of number two heating oil with 0.0015 percent sulfur by weight or less. 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 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: NUMBER 2 HEATING 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 1-15: Compliance Demonstration

Effective between the dates of 11/03/2014 and 07/23/2023

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

Item 1-15.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-15.2:

Compliance Demonstration 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 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,

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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 1-16: Compliance Demonstration
Effective between the dates of 11/03/2014 and 07/23/2023

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

Item 1-16.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Owners and/or operators of any stationary combustion
installation that fires waste oil on or after July 1, 2014
are limited to the firing of waste oil with 0.75 percent
sulfur by weight or less.

Data collected pursuant to this Subpart must be tabulated
and summarized in a form acceptable to the Department, and
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: 0.75 percent by weight
Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL
CHANGE
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



Condition 13: Compliance Demonstration
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 225-2.3 (b) (1) (ii)

Item 13.1:

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

Emission Unit: U-00001
Process: 001 Emission Source: 00001

Emission Unit: U-00001
Process: 003 Emission Source: 00010

Item 13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Each piece of equipment which fires Waste Fuel A shall demonstrate, at a minimum, 99% combustion efficiency within 60 days of its first use on site.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: WASTE OIL
Parameter Monitored: COMBUSTION EFFICIENCY
Lower Permit Limit: 99.0 percent
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-17: Compliance Demonstration
Effective between the dates of 11/03/2014 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 225-2.4 (b)

Item 1-17.1:

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

Emission Unit: U-00001

Item 1-17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

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Monitoring Description:

The minimum fuel heat content of the waste oil shall be at least 125,000 BTU/gallon on fuel.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTE OIL

Parameter Monitored: HEAT CONTENT

Lower Permit Limit: 125000.0 British thermal units per gallon

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-18: Compliance Demonstration
Effective between the dates of 11/03/2014 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 225-2.4 (b)

Item 1-18.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Item 1-18.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The total halogen limit per Part 360-14.2(x),(1) is 4000 ppm maximum. The more restrictive limit under part 225-2.4(b) is 1000 ppm maximum.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTE OIL

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 1000 parts per million by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-19: Compliance Demonstration
Effective between the dates of 11/03/2014 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 225-2.4 (b)

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Item 1-19.1:

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

Emission Unit: U-00001

Regulated Contaminant(s):

CAS No: 001336-36-3 POLYCHLORINATED BIPHENYL

Item 1-19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The more restrictive limitation for Total PCBs, per Part
360-14.2(x),(1) is < 2 ppm maximum. The limit under Part
225-2.4(b) is < 50 ppm maximum.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTE OIL

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 50 parts per million by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL
CHANGE

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-20: Compliance Demonstration

Effective between the dates of 11/03/2014 and 07/23/2023

Applicable Federal Requirement:6 NYCRR 225-2.4 (b)

Item 1-20.1:

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

Emission Unit: U-00001

Regulated Contaminant(s):

CAS No: 007439-92-1 LEAD

Item 1-20.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The more restrictive fuel contaminant limitation for lead
under Part 360-14.2(x),(1) is 100 ppm maximum. The
Division of Air restrictions under Part 225-2.4(b) are

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250.0 ppm.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTE OIL

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 250.0 parts per million by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL
CHANGE

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



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: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

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 only enforceable.

Condition 14: Contaminant List
Effective between the dates of 07/24/2013 and 07/23/2023



Applicable State Requirement:ECL 19-0301

Item 14.1:

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

CAS No: 001336-36-3
Name: POLYCHLORINATED BIPHENYL

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

CAS No: 007439-92-1
Name: LEAD

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

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

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY998-00-0
Name: VOC

**Condition 15: Malfunctions and start-up/shutdown activities
Effective between the dates of 07/24/2013 and 07/23/2023**

Applicable State Requirement:6 NYCRR 201-1.4

Item 15.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.



(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 16: Emission Unit Definition
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 16.1(From Mod 2):

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

Emission Unit: U-00001

Emission Unit Description:

This emission unit includes two Low Temperature Thermal Desorption Units (LTTDUs) used primarily to treat petroleum and nonpetroleum contaminated soils. Each LTTDU consists of a rotary kiln (primary treatment unit), thermal oxidizer (secondary treatment unit), evaporative cooling chamber, optional multiple cyclones, and baghouses.

Building(s): 00001

Item 16.2(From Mod 2):

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

Emission Unit: U-00002

Emission Unit Description:

The ventilation from the contaminated soil storage building has carbon bed filters with particulate pre-filters for control of particulate and VOC emissions.

Building(s): 00001

Condition 17: Renewal deadlines for state facility permits
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable State Requirement:6 NYCRR 201-5.2 (c)



Item 17.1:

The owner or operator of a facility having an issued state facility 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.

Condition 18: Compliance Demonstration
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 18.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 18.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources
NYS Dept. of Environmental Conservation
Region 5
232 Golf Course Rd.
Warrensburg, NY 12885

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 19: Visible Emissions Limited
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable State Requirement:6 NYCRR 211.2

Item 19.1:

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.

Condition 2-6: Compliance Demonstration
Effective between the dates of 03/28/2016 and 07/23/2023

Applicable State Requirement:6 NYCRR 212-2.3 (b)

Item 2-6.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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Facility DEC ID: 5533000038



CAS No: 0NY998-00-0 VOC

Item 2-6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The total volatile & semi-volatile content of PCS after blending which goes to the soil remediation units for treatment is not to exceed 810 lb/hr per rotary kiln. Soil is tested before acceptance for concentration. Based on analyses & the latest demonstrated destruction and removal efficiency, monthly VOC emission calculations are made.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: SOIL

Parameter Monitored: VOC CONTENT

Upper Permit Limit: 810 pounds per hour

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).

Condition 2-7: Compliance Demonstration
Effective between the dates of 03/28/2016 and 07/23/2023

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 2-7.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
CAS No: 0NY998-00-0	VOC
CAS No: 001336-36-3	POLYCHLORINATED BIPHENYL

Item 2-7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to assure they are maintaining the control efficiencies needed to demonstrate that emissions are in compliance with 6 NYCRR 212-2.3(b), the thermal incinerators must maintain temperatures at or above those demonstrated on average during the last PoP test for the

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principal contaminant of concern (VOC, PCB or Coal Tar) for the respective units (on-site or mobile). These contaminants are "A" rated under Part 212. The minimum temperatures at the time of issuance of the permit modification are:

On-site thermal oxidizer for;

PCB - 1650 deg F
VOC - 1500 deg F
Coal Tar - 1500 deg F

Mobile thermal oxidizer for;

PCB - 1650 deg F
VOC - 1590 deg F
Coal Tar - 1710 deg F

Monitoring Frequency: CONTINUOUS
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 2-8: Compliance Demonstration
Effective between the dates of 03/28/2016 and 07/23/2023

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 2-8.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 001336-36-3 POLYCHLORINATED BIPHENYL

Item 2-8.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Pursuant to the requirements of 6 NYCRR 212-2.3(b), the annual emissions of PCBs (a Part 212 "A" rated contaminant) from this facility are limited to 4,308 lbs. At this rating, modeled PCB annual ambient impacts are approximately 5% of the annual guideline concentrations.

Until PCB testing on the new thermal desorption and oxidizer unit is completed, PCB annual emissions will be



calculated based upon the results of ESMI's portable thermal desorption and oxidizer unit during the unit's operation at NYSDEC Luzerne Road PCB Remediation Project. During the site required PoP Test, a 99.986% destruction removal efficiency (DRE) was demonstrated.

ESMI believes this efficiency will be representative of the thermal desorption and oxidizer presently operated by ESMI as the unit demonstrated a destruction removal efficiency for benzo(a)pyrene of 99.995% during the recent manufactured gas plant (MGP) PoP test.

Upon completion of any new testing, the DRE demonstrated at that time will be used to calculate emissions of PCBs going forward.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: PCB CONTAMINATED SOIL
Upper Permit Limit: 4.308 pounds per year
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 2-9: Compliance Demonstration
Effective between the dates of 03/28/2016 and 07/23/2023

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 2-9.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 2-9.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Pursuant to the requirements of 6 NYCRR 212-2.3(b), the annual emissions of D/F (a Part 212 "A" rated contaminant) from this facility are limited to 6.462E-04 lbs.

For D/F annual emissions reporting, emissions are to be calculated based upon the 1998 PCB PoP test completed at ESMI where D/F generation was monitored and analyzed. The results of this test demonstrated 4.3995E-08 pounds of D/F



development per pound of PCB feed to the PTU. This testing was done on the old stationary treatment unit which was recently replaced with one of a different design.

Given that D/F testing has not been performed on the new unit; the previously demonstrated factor X 10 (4.3995E-07) will be used to report actual emissions on a per batch basis until such time as a new PoP test is completed for the new stationary treatment unit.

With the allowable emission limit of 6.462E-04 lb/yr D/F, this will limit facility emissions to less than 5% of the AGC.

Once a PoP test is completed for the new stationary treatment unit providing greater confidence in the reported actual emissions, these and any subsequent results will be used without the multiple of 10 factor and will assure that facility emissions are less than 50% of the AGC.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: PCB CONTAMINATED SOIL
Upper Permit Limit: 0.0006462 pounds per year
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 2-10: Compliance Demonstration
Effective between the dates of 03/28/2016 and 07/23/2023

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 2-10.1:
The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 001336-36-3 POLYCHLORINATED BIPHENYL

Item 2-10.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:
Pursuant to the requirements of 6 NYCRR 212-2.3(b) and to match the limit contained in the permittee's Part 360

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permit, the maximum concentration of PCB (a Part 212 "A" rated contaminant) per batch of media to be treated must not exceed 45 ppm. This primarily assures that they are not treating Hazardous Waste of 50 ppm or greater and is part of the overall scheme in limiting PCB emissions under Part 212.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: PCB CONTAMINATED SOIL
Parameter Monitored: CONCENTRATION
Upper Permit Limit: 45 parts per million by weight
Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 2-11: Compliance Demonstration
Effective between the dates of 03/28/2016 and 07/23/2023

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 2-11.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 001336-36-3 POLYCHLORINATED BIPHENYL

Item 2-11.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The feed rate to the primary treatment unit (PTU) for PCB contaminated media is limited to no more than 45 tons per hour. This will limit emissions of PCBs (a Part 212 A-rated contaminant) to acceptable levels, per 6 NYCRR 212-2.3(b). For purposes of this condition, PCB contaminated media does not include soils containing 1.0 ppm or less total PCBs that, once treated, may be beneficially used in accordance with BUD #610-5-58 or with another pertinent BUD granted pursuant to 6 NYCRR Part 360. Those soils, while not subject to the 45 ton per hour limit on media feed to the PTU, are subject to the 810 pound per hour feed limit on total volatile and semi-volatile content of petroleum contaminated soil to the thermal desorption unit found elsewhere in this permit.

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Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: PCB CONTAMINATED SOIL
Upper Permit Limit: 45 tons per hour
Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

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

Condition 20: Emission Point Definition By Emission Unit
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 20.1(From Mod 2):

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

Emission Unit: U-00001

Emission Point: 00001

Height (ft.): 55 Diameter (in.): 44
NYTMN (km.): 4792.78 NYTME (km.): 615.847 Building: 00001

Emission Point: 00003

Height (ft.): 39 Length (in.): 80 Width (in.): 32
NYTMN (km.): 4792.754 NYTME (km.): 615.854

Item 20.2(From Mod 2):

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

Emission Unit: U-00002

Emission Point: 00002

Height (ft.): 55 Diameter (in.): 26
NYTMN (km.): 4792.739 NYTME (km.): 615.813 Building: 00001

Condition 21: Process Definition By Emission Unit
Effective between the dates of 07/24/2013 and 07/23/2023

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 21.1(From Mod 2):

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

Emission Unit: U-00001



Process: 001 Source Classification Code: 5-04-105-30

Process Description:

This process is the thermal desorption of contaminated soils in the primary treatment units followed by thermal oxidation of effluent gases in the secondary treatment units. The treatment units are fueled by No. 2 fuel oil, No. 4 fuel oil, non-residual Waste Oil A, natural gas, or liquidified petroleum gas. Each unit is equipped with an optional multiple cyclone and a baghouse for emissions control. Emissions testing during processing of coal-tar contaminated materials in 1998 demonstrates the ability to operate without the multiple cyclones and meet applicable particulate emission limitations.

Emission Source/Control: 00001 - Combustion
Design Capacity: 50 million Btu per hour

Emission Source/Control: 00003 - Combustion
Design Capacity: 40.5 million Btu per hour

Emission Source/Control: 00004 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

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

Item 21.2(From Mod 2):

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

Emission Unit: U-00001
Process: 003 Source Classification Code: 5-04-105-30

Process Description:

Mobile Remediation Unit - This process is the thermal desorption of contaminated soils in the primary treatment units followed by thermal oxidation of effluent gases in the secondary treatment units. The treatment units are fueled by No. 2 fuel oil, No. 4 fuel oil, non-residual Waste Oil A, natural gas, or liquidified petroleum gas. Each unit is equipped with a baghouse for emissions control. Emissions testing during processing of coal-tar contaminated materials in 1998 demonstrates the ability to operate without the multiple cyclones and meet applicable particulate emission limitations.

Emission Source/Control: 00010 - Combustion
Design Capacity: 42 million Btu per hour

Emission Source/Control: 00011 - Combustion
Design Capacity: 42 million BTUs per hour

Emission Source/Control: 00012 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION



Emission Source/Control: 00013 - Control
Control Type: FABRIC FILTER

Item 21.3(From Mod 2):

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

Emission Unit: U-00001
Process: 004 Source Classification Code: 3-05-020-12
Process Description:

The drying of aggregate and mine tailings in either of the primary treatment units Emission Source 00001 or 00010. Gasses (water vapor & particulates) pass through the respective thermal oxidation (secondary treatment) units without any combustion. Each unit is equipped with an optional multiple cyclone and a baghouse for emissions control. Emissions testing during processing of coal-tar contaminated materials in 1998 demonstrates the ability to operate without the multiple cyclones and meet applicable particulate emission limitations.

Emission Source/Control: 00001 - Combustion
Design Capacity: 50 million Btu per hour

Emission Source/Control: 00003 - Combustion
Design Capacity: 40.5 million Btu per hour

Emission Source/Control: 00010 - Combustion
Design Capacity: 42 million Btu per hour

Emission Source/Control: 00011 - Combustion
Design Capacity: 42 million BTUs per hour

Emission Source/Control: 00004 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

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

Emission Source/Control: 00012 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: 00013 - Control
Control Type: FABRIC FILTER

Item 21.4(From Mod 2):

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

Emission Unit: U-00002
Process: 002 Source Classification Code: 5-03-008-99
Process Description:

Building exhaust contains fugitive VOC from contaminated



soil storage plus particulates from crushing, screening
and soil handling activities.

Emission Source/Control: 00002 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: 00009 - Control
Control Type: MAT OR PANEL FILTER

Emission Source/Control: 00006 - Process

Emission Source/Control: 00007 - Process

Emission Source/Control: 00008 - Process

