



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 4-0103-00016/00048
Effective Date: 01/01/2016 Expiration Date: 12/31/2020

Permit Issued To: NORLITE LLC
PO BOX 694
COHOES, NY 12047-0694

Contact: TIMOTHY F LACHELL
NORLITE CORPORATION
628 S SARATOGA ST
COHOES, NY 12047
(518) 235-0401

Facility: NORLITE LLC
628 S SARATOGA ST
COHOES, NY 12047

Description:

This project is a Title V permit renewal for Norlite Corporation. Norlite operates two hazardous waste lightweight aggregate kilns and accepts off-site liquid waste for energy recovery. The facility is major for hazardous air pollutants (HAPs) which subjects the facility to the Title V permit process. In addition to 6 NYCRR regulations, the facility is also subject to federal National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations. Specifically, the facility must comply with 40 CFR Part 63 Subpart EEE-National Emission Standards for HAPs from Hazardous Waste Combustors, Subpart DD-National Emission Standards for HAPs from Off-Site Waste and Recovery Operations, and Subpart H-National Emission Standards for Organic HAPs for Equipment Leaks.



New York State Department of Environmental Conservation

Facility DEC ID: 4010300016

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: ~~JAMES J. ECKEL~~
NANCY M. BAKER
NYSDEC - REGION 4
1130 N WESTCOTT RD
SCHENECTADY, NY 12306-2014

Authorized Signature:

James J. Eckel

Date: 12 / 31 / 2015



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.



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DEC GENERAL CONDITIONS

General Provisions

- 4 1 Facility Inspection by the Department
- 4 2 Relationship of this Permit to Other Department Orders and Determinations
- 4 3 Applications for permit renewals, modifications and transfers
- 4 4 Permit modifications, suspensions or revocations by the Department

Facility Level

- 5 5 Submission of application for permit modification or renewal-REGION 4 HEADQUARTERS



DEC GENERAL CONDITIONS

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

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.3:

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:



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

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

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

Condition 5: Submission of application for permit modification or renewal-REGION 4 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 4 Headquarters
Division of Environmental Permits
1130 North Westcott Rd.
Schenectady, NY 12306-2014
(518) 357-2069

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: NORLITE LLC
PO BOX 694
COHOES, NY 12047-0694

Facility: NORLITE LLC
628 S SARATOGA ST
COHOES, NY 12047

Authorized Activity By Standard Industrial Classification Code:
3295 - MINERALS, GROUND OR TREATED

Permit Effective Date: 01/01/2016

Permit Expiration Date: 12/31/2020



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FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 11 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 11 2 6 NYCRR 201-6.4 (a) (7): Fees
- 11 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 12 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 12 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 14 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 15 7 6 NYCRR 202-2.1: Compliance Certification
- 16 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 16 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 17 10 6 NYCRR 200.7: Maintenance of Equipment
- 18 11 6 NYCRR 201-1.7: Recycling and Salvage
- 18 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 18 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 18 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 19 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 19 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 19 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 20 18 6 NYCRR 202-1.1: Required Emissions Tests
- 20 19 40 CFR Part 68: Accidental release provisions.
- 21 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 21 6 NYCRR Subpart 201-6: Emission Unit Definition
- 22 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 23 23 6 NYCRR 201-6.4 (f): Compliance Certification
- 31 24 6 NYCRR 211.1: Air pollution prohibited
- 31 25 6 NYCRR 212.6 (a): Compliance Certification
- 32 26 6 NYCRR 225-1.2 (f): Compliance Certification
- 33 27 6 NYCRR 225-1.2 (h): Compliance Certification
- 34 28 40CFR 63.162(c), Subpart H: General standards - identification of equipment
- 34 29 40CFR 63.680(f), Subpart DD: Applicability of 40 CFR 63 Subpart A - General Provisions

Emission Unit Level

- 34 30 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 36 31 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=C-RUSHS,Proc=OOO

- 48 32 40CFR 60.672(b), NSPS Subpart OOO: Compliance Certification

EU=K-ILNSG,Proc=KAF

- 49 33 6 NYCRR 225-2.3 (b) (3): Compliance Certification

EU=K-ILNSG,Proc=KHF

- 49 34 40CFR 63.1200(c), Subpart EEE: General provisions applicability



- 49 35 40CFR 63.1206(b)(1), Subpart EEE: Periods when emission units
are subject to Subpart EEE
- 50 36 40CFR 63.1206(b)(11), Subpart EEE: Calculation of hazardous
waste residence time
- 50 37 40CFR 63.1206(b)(12), Subpart EEE: Documenting compliance with
the emission standards based on performance testing
- 51 38 40CFR 63.1206(c)(1), Subpart EEE: General operating requirements
- 51 39 40CFR 63.1206(c)(2)(iii), Subpart EEE: Identification of
projected oxygen correction factor
- 51 40 40CFR 63.1206(c)(2)(iv), Subpart EEE: Recording of
startup/shutdown/malfunction plan
- 52 41 40CFR 63.1206(c)(2)(v)('A'), Subpart EEE: Compliance Certification
- 53 42 40CFR 63.1206(c)(3)(i), Subpart EEE: Compliance Certification
- 54 43 40CFR 63.1206(c)(3)(ii), Subpart EEE: Ducting of combustion gases
- 54 44 40CFR 63.1206(c)(3)(iii), Subpart EEE: Restarting waste feed
- 54 45 40CFR 63.1206(c)(3)(iv), Subpart EEE: Failure of the AWFCO system
- 55 46 40CFR 63.1206(c)(3)(v), Subpart EEE: Compliance Certification
- 55 47 40CFR 63.1206(c)(3)(vi), Subpart EEE: Compliance Certification
- 56 48 40CFR 63.1206(c)(3)(vii), Subpart EEE: Compliance Certification
- 56 49 40CFR 63.1206(c)(6)(i), Subpart EEE: Compliance Certification
- 57 50 40CFR 63.1206(c)(6)(ii), Subpart EEE: Certified operator on site
- 58 51 40CFR 63.1206(c)(6)(iv), Subpart EEE: Compliance Certification
- 58 52 40CFR 63.1206(c)(6)(v), Subpart EEE: Compliance Certification
- 59 53 40CFR 63.1206(c)(6)(vi), Subpart EEE: Compliance Certification
- 59 54 40CFR 63.1206(c)(6)(vii), Subpart EEE: Compliance Certification
- 60 55 40CFR 63.1206(c)(7), Subpart EEE: Compliance Certification
- 61 56 40CFR 63.1206(c)(8)(i), Subpart EEE: Bag Leak Detector System
requirements
- 61 57 40CFR 63.1206(c)(8)(ii), Subpart EEE: Compliance Certification
- 63 58 40CFR 63.1206(c)(8)(iii), Subpart EEE: Compliance Certification
- 63 59 40CFR 63.1206(c)(8)(iv), Subpart EEE: Compliance Certification
- 64 60 40CFR 63.1207, Subpart EEE: Comprehensive Performance Test (CPT)
- 65 61 40CFR 63.1207, Subpart EEE: Confirmatory Performance Test (CfPT)
- 66 62 40CFR 63.1207(b)(1), Subpart EEE: Compliance Certification
- 67 63 40CFR 63.1207(b)(1), Subpart EEE: Compliance Certification
- 67 64 40CFR 63.1207(b)(1), Subpart EEE: Compliance Certification
- 68 65 40CFR 63.1207(b)(1), Subpart EEE: Compliance Certification
- 68 66 40CFR 63.1207(b)(1), Subpart EEE: Compliance Certification
- 69 67 40CFR 63.1207(b)(1), Subpart EEE: Compliance Certification
- 70 68 40CFR 63.1207(b)(1), Subpart EEE: Compliance Certification
- 70 69 40CFR 63.1207(b)(1), Subpart EEE: Compliance Certification
- 71 70 40CFR 63.1207(b)(2), Subpart EEE: Compliance Certification
- 72 71 40CFR 63.1207(g)(1), Subpart EEE: Operating conditions during
comprehensive performance test
- 72 72 40CFR 63.1207(g)(2), Subpart EEE: Operating conditions during
confirmatory performance testing
- 73 73 40CFR 63.1207(h)(1), Subpart EEE: Operating conditions during
subsequent testing
- 73 74 40CFR 63.1207(h)(2), Subpart EEE: Operating conditions during
subsequent pretesting
- 74 75 40CFR 63.1207(j)(1), Subpart EEE: Notification of compliance for
comprehensive performance test



- 74 76 40CFR 63.1207(j)(2), Subpart EEE: Notification of compliance for confirmatory performance testing
- 74 77 40CFR 63.1207(l)(1), Subpart EEE: Failure of a comprehensive performance test
- 75 78 40CFR 63.1207(l)(2), Subpart EEE: Failure of a confirmatory performance test
- 76 79 40CFR 63.1207(l)(3), Subpart EEE: Petition to burn hazardous waste
- 76 80 40CFR 63.1209(a)(1), Subpart EEE: Compliance Certification
- 77 81 40CFR 63.1209(a)(2), Subpart EEE: Compliance Certification
- 77 82 40CFR 63.1209(a)(3), Subpart EEE: Compliance Certification
- 78 83 40CFR 63.1209(a)(6), Subpart EEE: Calculation of rolling averages
- 79 84 40CFR 63.1209(b)(1), Subpart EEE: Continuous monitoring systems for compliance with operating parameter limits
- 79 85 40CFR 63.1209(b)(2)(i), Subpart EEE: Compliance Certification
- 80 86 40CFR 63.1209(b)(3), Subpart EEE: Sampling intervals for continuous monitoring systems
- 80 87 40CFR 63.1209(b)(4), Subpart EEE: Continuous Monitoring Systems span limit
- 80 88 40CFR 63.1209(b)(5), Subpart EEE: Calculation of rolling averages for continuous monitoring systems
- 81 89 40CFR 63.1209(c)(1), Subpart EEE: General feedstream analysis requirements
- 81 90 40CFR 63.1209(c)(2), Subpart EEE: Compliance Certification
- 82 91 40CFR 63.1209(c)(4), Subpart EEE: Compliance Certification
- 83 92 40CFR 63.1209(c)(5), Subpart EEE: Waiver of monitoring of constituents in certain feedstreams
- 83 93 40CFR 63.1209(d), Subpart EEE: Compliance Certification
- 84 94 40CFR 63.1209(j)(1), Subpart EEE: Compliance Certification
- 85 95 40CFR 63.1209(j)(2), Subpart EEE: Compliance Certification
- 86 96 40CFR 63.1209(j)(3), Subpart EEE: Compliance Certification
- 87 97 40CFR 63.1209(j)(4), Subpart EEE: Compliance Certification
- 88 98 40CFR 63.1209(k)(1), Subpart EEE: Compliance Certification
- 89 99 40CFR 63.1209(k)(2), Subpart EEE: Compliance Certification
- 89 100 40CFR 63.1209(k)(3), Subpart EEE: Compliance Certification
- 90 101 40CFR 63.1209(k)(4), Subpart EEE: Compliance Certification
- 91 102 40CFR 63.1209(l)(1)(iv), Subpart EEE: Compliance Certification
- 93 103 40CFR 63.1209(l)(1)(v), Subpart EEE: Compliance Certification
- 94 104 40CFR 63.1209(m)(1)(i)(A'), Subpart EEE: Compliance Certification
- 94 105 40CFR 63.1209(m)(1)(i)(B'), Subpart EEE: Compliance Certification
- 95 106 40CFR 63.1209(m)(1)(i)(B'), Subpart EEE: Compliance Certification
- 96 107 40CFR 63.1209(m)(1)(i)(C'), Subpart EEE: Compliance Certification
- 97 108 40CFR 63.1209(m)(1)(i)(C'), Subpart EEE: Compliance Certification
- 98 109 40CFR 63.1209(n)(1), Subpart EEE: Compliance Certification
- 99 110 40CFR 63.1209(n)(2)(iv), Subpart EEE: Compliance Certification
- 100 111 40CFR 63.1209(n)(2)(iv), Subpart EEE: Compliance Certification
- 101 112 40CFR 63.1209(n)(2)(iv), Subpart EEE: Compliance Certification
- 102 113 40CFR 63.1209(n)(2)(iv), Subpart EEE: Compliance Certification
- 103 114 40CFR 63.1209(n)(2)(vii), Subpart EEE: Compliance Certification
- 104 115 40CFR 63.1209(n)(5), Subpart EEE: Compliance Certification
- 105 116 40CFR 63.1209(o)(1), Subpart EEE: Compliance Certification
- 105 117 40CFR 63.1209(o)(2), Subpart EEE: Compliance Certification
- 106 118 40CFR 63.1209(o)(3)(i), Subpart EEE: Compliance Certification



- 107 119 40CFR 63.1209(o)(3)(iv), Subpart EEE: Compliance Certification
- 108 120 40CFR 63.1209(o)(4)(i), Subpart EEE: Compliance Certification
- 109 121 40CFR 63.1209(o)(4)(ii), Subpart EEE: Compliance Certification
- 110 122 40CFR 63.1209(o)(4)(iii), Subpart EEE: Compliance Certification
- 111 123 40CFR 63.1209(p), Subpart EEE: Compliance Certification
- 112 124 40CFR 63.1209(p), Subpart EEE: Compliance Certification
- 112 125 40CFR 63.1209(p), Subpart EEE: Compliance Certification
- 113 126 40CFR 63.1209(p), Subpart EEE: Compliance Certification
- 114 127 40CFR 63.1209(p), Subpart EEE: Compliance Certification
- 115 128 40CFR 63.1210, Subpart EEE: Compliance Certification
- 116 129 40CFR 63.1221(a)(5)(i), Subpart EEE: Compliance Certification
- 116 130 40CFR 63.1221(c)(1), Subpart EEE: Compliance Certification
- 118 131 40CFR 63.1221(d), Subpart EEE: Significant figures

EU=K-ILNSG,EP=00001

- 118 132 6 NYCRR 212.4 (a): Compliance Certification
- 118 133 6 NYCRR 212.10 (c): Compliance Certification
- 119 134 6 NYCRR 225-2.4 (a) (2): Compliance Certification

EU=K-ILNSG,EP=00002

- 120 135 6 NYCRR 212.4 (a): Compliance Certification
- 120 136 6 NYCRR 212.10 (c): Compliance Certification
- 121 137 6 NYCRR 225-2.4 (a) (2): Compliance Certification

EU=M-ISCES

- 122 138 40CFR 63.162(c), Subpart H: General standards - identification of equipment
- 122 139 40CFR 63.162(f), Subpart H: General standards - Detection of leaks in pumps, connectors, closed vent systems and control devices, agitators, and compressors
- 122 140 40CFR 63.162(f), Subpart H: General standards - detection of leaks in valves
- 123 141 40CFR 63.163(b)(2), Subpart H: Compliance Certification
- 124 142 40CFR 63.163(b)(3), Subpart H: Compliance Certification
- 124 143 40CFR 63.163(d), Subpart H: Pumps in light liquid service - percent leaking pumps calculation
- 125 144 40CFR 63.167(a), Subpart H: Open-ended valves or lines standards
- 126 145 40CFR 63.167(b), Subpart H: Compliance Certification
- 126 146 40CFR 63.167(c), Subpart H: Standards for open-ended valves with double block and bleed system
- 126 147 40CFR 63.168, Subpart H: Compliance Certification
- 128 148 40CFR 63.168(f), Subpart H: Valves in gas/vapor service and light liquid service - repair of leaks
- 129 149 40CFR 63.169, Subpart H: Compliance Certification

EU=M-ISCES

- 130 150 40CFR 63.171(a), Subpart H: Delay of repair - general
- 130 151 40CFR 63.171(b), Subpart H: Delay of repair for isolated equipment
- 131 152 40CFR 63.171(c), Subpart H: Delay of repair - valves,



- connectors, and agitators
- 131 153 40CFR 63.171(d), Subpart H: Delay of repair - pumps
- 132 154 40CFR 63.171(e), Subpart H: Delay of repair beyond process unit shutdown
- 132 155 40CFR 63.172(b), Subpart H: Compliance Certification
- 133 156 40CFR 63.172(e), Subpart H: Standards for control devices used to comply with Subpart H
- 133 157 40CFR 63.172(f), Subpart H: Compliance Certification
- 134 158 40CFR 63.173(a)(1), Subpart H: Compliance Certification
- 135 159 40CFR 63.173(b)(1), Subpart H: Compliance Certification
- 135 160 40CFR 63.688(b)(1), Subpart DD: Containers with a capacity greater than 26.4 gallons and less than or equal to 121.52 gallons
- 136 161 40CFR 63.688(b)(2), Subpart DD: Containers with a capacity greater than 121.52 gallons not in light-material service
- 137 162 40CFR 63.688(b)(3), Subpart DD: Containers with a capacity greater than 121.52 gallons in light-material service
- 138 163 40CFR 63.689(c), Subpart DD: Compliance Certification
- 138 164 40CFR 63.693(b)(3), Subpart DD: Compliance Certification
- 139 165 40CFR 63.693(c)(1)(i), Subpart DD: Compliance Certification
- 140 166 40CFR 63.693(d), Subpart DD: Compliance Certification
- 141 167 40CFR 63.693(d)(2)(i), Subpart DD: Compliance Certification
- 141 168 40CFR 63.693(d)(2)(ii), Subpart DD: Compliance Certification
- 142 169 40CFR 63.693(d)(4)(iii), Subpart DD: Compliance Certification
- 143 170 40CFR 63.695(c)(1), Subpart DD: Compliance Certification
- 143 171 40CFR 63.695(c)(3)(i), Subpart DD: Compliance Certification
- 144 172 40CFR 63.695(c)(3)(ii), Subpart DD: Repair of leaks that take longer than 45 days
- 144 173 40CFR 63.696, Subpart DD: Compliance Certification
- 145 174 40CFR 63.697, Subpart DD: Compliance Certification
- 145 175 40CFR 63.926(a), Subpart PP: Inspection and monitoring procedures for Container Level 1 and 2 controls

EU=S-TANKS

- 147 176 40CFR 63.172(f), Subpart H: Compliance Certification
- 148 177 40CFR 63.173(a)(1), Subpart H: Compliance Certification
- 148 178 40CFR 63.173(b)(1), Subpart H: Compliance Certification
- 149 179 40CFR 63.685(g)(1), Subpart DD: Compliance Certification
- 150 180 40CFR 63.685(g)(2), Subpart DD: Compliance Certification
- 151 181 40CFR 63.695(b)(3), Subpart DD: Compliance Certification
- 152 182 40CFR 63.695(b)(4), Subpart DD: Compliance Certification
- 153 183 40CFR 63.696, Subpart DD: Compliance Certification
- 153 184 40CFR 63.697, Subpart DD: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 154 185 ECL 19-0301: Contaminant List
- 155 186 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 156 187 6 NYCRR 211.2: Visible Emissions Limited
- 156 188 6 NYCRR 211.2: Compliance Demonstration



FEDERALLY ENFORCEABLE CONDITIONS

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

- (1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
- (3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

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

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

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

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more



than eighteen months, prior to the date of permit expiration for permit renewal purposes.

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

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

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

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

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

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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

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

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

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

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

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

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

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6



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

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

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

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

- i. 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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.



Effective between the dates of 01/01/2016 and 12/31/2020

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

Item 4.1:

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

Condition 5: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

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

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

(1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.



(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

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

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

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

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

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



whether or not the Department or EPA has approved the results.

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 6: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

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

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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



Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

Condition 8: Recordkeeping requirements
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

(a) The following records shall be maintained for at least five years:

(1) a copy of each emission statement submitted to the department; and

(2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 9: Open Fires - Prohibitions
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

(a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of



Item 10.1:

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.

Condition 11: Recycling and Salvage
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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.

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 13.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

Condition 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 14.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 15: Requirement to Provide Information



Effective between the dates of 01/01/2016 and 12/31/2020

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

Item 15.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: Right to Inspect

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)

Item 16.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

(i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and

(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 17: Off Permit Changes

Effective between the dates of 01/01/2016 and 12/31/2020

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

Item 17.1:

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the



facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.4 shall not apply to any change made pursuant to this paragraph.

Condition 18: Required Emissions Tests
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 18.1:

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 19: Accidental release provisions.
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40 CFR Part 68

Item 19.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;

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

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

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

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



Condition 20: Recycling and Emissions Reduction
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 82, Subpart F

Item 20.1:

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

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

Condition 21: Emission Unit Definition
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 21.1:

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

Emission Unit: C-RUSHS

Emission Unit Description:

Shale and lightweight crushers.

This emission unit covers the crushers for the raw shale and crushers for the expanded shale from the kiln.

Buildings:

B1: Primary Plant which processes the raw shale from the quarry

B2: Finishing Plant which processes the expanded aggregate from the kiln

B5: Quarry

Building(s): B1

B2

Item 21.2:

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

Emission Unit: K-ILNSG

Emission Unit Description:

Production of expanded aggregate in rotary kilns using natural shale as the raw material feed and the following fuel sources:

1) Hazardous Waste

2) Waste Fuel A

3)Waste Fuel B

4)Off-Specification Used Oil

5)Specification Used Oil

6)Number 2 Oil

7)Number 4 Oil

8)Number 6 Oil



9)Natural Gas

This emission unit covers the operation of the following:

Kiln # 1, Emission Point 00001

Kiln # 2, Emission Point 00002

Clinker Cooler #1, Emission Point # 0003A

Clinker Cooler #2, Emission Point # 0003B

Building:

B3: Main Plant

Building(s): B3

Item 21.3:

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

Emission Unit: M-ISCES

Emission Unit Description:

Transportation, loading and unloading of product, kiln feed and rim seal, screening and hopper operations, unloading of fuel, drum storage, fuel transfer system, future screen, conveyer and pelletizer, and quarry operations.

Building(s): B1

B2

B3

B4

B5

Item 21.4:

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

Emission Unit: S-TANKS

Emission Unit Description:

Hazardous waste fuel storage tanks.

Building(s): B4

Item 21.5:

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

Emission Unit: S-TPOPS

Emission Unit Description:

Storage pile operations.

Building(s): B1

B2

Condition 22: Progress Reports Due Semiannually
Effective between the dates of 01/01/2016 and 12/31/2020

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



Item 22.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 23: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

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

Item 23.1:

The Compliance Certification activity will be performed for the Facility.

Item 23.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

OPERATIONAL FLEXIBILITY PLAN

(A) Operational Flexibility Authorized under 6 NYCRR Part 201:

No permit modifications will be required under any approved emissions trading, economic incentives, marketable permits, or other similar programs or processes for changes that are provided for in the permit.

(1) Alternate operating scenarios. The permittee may propose a range of operating conditions that will allow flexibility to operate under more than one operating scenario. If any such scenarios have been specified within this permit, operation under each proposed alternate operating scenario is authorized without requiring a permit revision. The permittee must track and report the scenarios that the major stationary source operates under according to the requirements of this permit, and contemporaneously with making a change from one operating scenario to another, the facility owner and operator must record the scenarios in a log at the facility. The alternate operating scenarios shall be specified by terms and conditions stated in the permit and shall not contravene any applicable requirement. Alternative operating scenarios may include but are not limited to:

(i) Specifying, as maximum permissible operating conditions, alternative operational scenarios that can be expected to occur during the term of the permit,



(ii) The specification of the maximum permissible emissions rate as the enforceable limit unless the operational capacity of the emissions source or emission unit is limited as a result of applicable or other requirements,

(iii) The aggregation of emissions from emission units to be detailed under an approved operational flexibility plan, describing the manner in which emissions may be varied in quantity and nature among such emissions units. Applications must describe the location and characteristics of emission units involved, and the corresponding emissions, and

(iv) Other bases for the facilitation of operational flexibility not in violation of federal or state law or regulation as approved by the Department and the Administrator.

(2) Protocol. In the operational flexibility plan the owner and/or operator may propose to incorporate a protocol component by which the permittee will evaluate proposed changes for compliance with applicable requirements. Compliance with an approved protocol shall serve as compliance with 6 NYCRR Part 212 of this Chapter except that it shall not undo previous 6 NYCRR 212.10 RACT determinations or otherwise absolve the permittee from 6 NYCRR 212.10 RACT compliance obligations. The protocol shall include provisions for notifying the Department of changes. Detail must be sufficient to allow for the assessment of control requirements, to determine compliance with applicable requirements and to maintain the Department's source inventory. Changes made pursuant to an approved protocol are not subject to the provisions of 6 NYCRR 201-6.6 of this Subpart. Norlite's Operational Flexibility Protocol is set forth in (C) and (D) below.

(3) No permit revisions will be required for operating changes that contravene an express a term, provided that such changes would not violate applicable requirements as defined under 6 NYCRR Part 201 or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the Clean Air Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emission or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of 7 days. The permittee, and the Department shall attach each such notice to their copy of the relevant permit:

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, date on which the change will occur, any change in



emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in 6 NYCRR Part 201-6.4 shall not apply to any change made pursuant to this paragraph.

(B) Plan Objective:

(1) The objective of this Plan is to maximize operational flexibility by building capability into the Title V Permit for the facility to make administrative and/or minor changes following a pre-established protocol as allowed for in 6 NYCRR Part 201-6.4(f)(2).

(2) This plan does not address those types of changes that would invoke the 6 NYCRR Part 201-6.6(d) "Significant Permit Modification". Rather, it addresses changes that qualify as minor modifications pursuant to the following criteria specified by 6 NYCRR Part 201-6.6(c)(1)(i) through (v):

(i) Do not violate any applicable requirement.

(ii) Do not involve significant changes to existing monitoring, reporting, or record keeping requirements in the permit and are not otherwise a significant change in the permit.

(iii) Do not require or change a case by case determination of a federal emission limitation or other federal standard, or a specific determination for portable sources causing adverse ambient impacts, or a visibility or increment analysis.

(iv) Do not seek to establish or change a permit term or condition that the facility has assumed to avoid an applicable requirement to which the emission source would otherwise be subject. Such terms and conditions include:

(a) A federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the Act, including 6 NYCRR Part 231 of this Chapter; or

(b) An alternative emissions limit approved pursuant to the early reduction program under Section 112 of the Act.

(v) Are not modifications under any provision of Title I of the Act, including modifications resulting in significant net emission increases as defined and regulated under 6 NYCRR Part 231 of this Chapter or the federal Prevention of Significant Deterioration program regulations at 40 CFR 52.21.

(C) Protocol for Changes:



(1) Certain changes which meet the criteria under (i)-(iii) below may be conducted without prior approval of the Department and shall not require modification of the permit. The facility owner and/or operator must, however, maintain records of the date and description of such changes and make such records available for review by Department representatives upon request:

(i) Changes that do not cause emissions to exceed any emission limitation contained in regulations or applicable requirements under 6 NYCRR.

(ii) Changes which do not cause the subject emission unit, emission source, process, or emission point to become subject to any additional regulations or requirements under 6 NYCRR.

(iii) Changes that do not seek to establish or modify a federally enforceable emission cap or limit.

(2) In addition to the record keeping required under (C)(1) above, the permittee must notify the Department in writing at least 30 calendar days in advance of making changes involving:

(i) The installation or relocation of any emission unit, emission source, process, or emission point within a facility,

(ii) The emission of any air pollutant not previously authorized or emitted in accordance with a permit issued by the Department, and

(iii) The installation or alteration of any air cleaning installation, device or control equipment.

(3) The Department may require a permit modification in order to impose applicable requirements or special permit conditions if it determines that changes proposed pursuant to notification under (2) above do not meet the criteria under (1) above or the change may have a significant air quality impact. In such cases the Department may require that the permittee not undertake the proposed change until it completes a more detailed review of the change for air quality impacts and/or applicable requirements. The Department shall respond to the permittee in writing with such a determination within 15 days of receipt of the 30-day advance notification from the permittee. The Department's determination shall include a listing of information necessary to further review the proposed change.

(D) OpFlex Plan:

(1) Norlite potentially may wish to change its manufacturing operations to introduce new materials, modify products, and improve quality and productivity. While many of these changes affect air emissions, most of them have a very small impact and do not alter the regulatory applicability documented in the Title V permit. This



section describes the process that Norlite proposes for use in reviewing changes to determine whether they trigger additional requirements under federal or state air regulations thereby requiring a formal permit modification. In particular, this protocol will be used to assess whether a proposed change will alter emissions from a source so as to trigger 6 NYCRR Part 212 and, if so, whether the source is equipped with the controls necessary to satisfy the requirements of that regulation. In brief, changes will be addressed under this protocol as follows:

(i) Any changes within an emission unit that do not result in an increase in potential emissions of a regulated material from that emission unit and do not trigger any new applicable air requirements may proceed without notification to DEC. Norlite will maintain records of information supporting the decisions in these cases and record the change for possible inclusion into Norlite's Title V permit.

(ii) If the review shows that a permit modification is not required either because the emission increase does not trigger additional requirements under state or federal air regulations or because the source already meets the control requirements specified in the regulation, Norlite will proceed with the change and notify the DEC as allowed in 201-6.4(f)(2). If information becomes available after the change is implemented which indicates that the change will not meet the requirements of all applicable air regulations, Norlite will comply with the appropriate regulatory requirements.

(iii) If the review shows that permit modification is necessary because the proposed change triggers a new applicable requirement under any state or federal air regulation, Norlite will submit the required application to DEC.

(iv) Where changes require updating drawings or other documents which have been submitted to DEC, Norlite will supply DEC with the updated documents, even if the change did not require that DEC be notified. All proposed changes will be reviewed to determine the potential applicability of federal and state applicable air requirements, including, but not limited to, 6 NYCRR Part 231 (nonattainment New Source Review), 40 CFR 52.21 (Prevention of Significant Deterioration), 40 CFR Part 60 (New Source Performance Standards), 40 CFR Part 63 (National Emission Standards for Hazardous Air Pollutants), and Miscellaneous VOC and NO_x RACT requirements, including 6 NYCRR Parts 212, 227-2, and 229. If the change triggers any requirements of any federal or state air regulation other than 6 NYCRR Part 212, this protocol will not be used; unless the change is specifically provided for in the cited regulation; in that case, Norlite will follow the provisions as specified in the regulation, including notifications.

(2) The types of changes that will be covered by this protocol, include, but are not limited to, the following:



- (i) Movement of equipment or emission points,
- (ii) Movement of a product from one piece of equipment to another,
- (iii) Introduction of a new material to an emission unit as long as the increase in emissions does not exceed the significance threshold for a criteria pollutant or a HAP,
- (iv) Replacement of equipment,
- (v) Replacement of control equipment,
- (vi) Rerouting of equipment from one emission point to another, and
- (vii) Constructing a new source

(3) These changes are discussed in greater detail below:

(i) Movement of equipment or emission point - If the movement of equipment or an emission point does not change the stack parameters in such a way as to increase impacts (i.e. larger diameter, lower stack, or cooler temperature) and does not bring the emission point closer to the property line, the change may proceed without notifying DEC. If the change results in the need to update a roof map with which DEC has been provided a copy, Norlite will issue an updated copy of the roof map when internal documents are updated. If stack parameters change or the emission point is moved closer to the property line, the methods in DAR 1 will be performed by Norlite comparing the present stack conditions and location to those proposed. If there is no decrease in air quality resulting in new applicable requirements or exceedance of existing applicable requirements, Norlite will inform DEC and proceed with the change. If there is a decrease in air quality below DAR 1 guideline concentrations, Norlite will submit the information to DEC for review with a request that the modification be allowed. If DEC has not responded to Norlite's request within 25 days of receipt of request, Norlite will consider that the change is approved and proceed with the change.

(ii) Movement of production from one piece of equipment to another - Norlite will review the emissions from the proposed change. If the review indicates that there is no increase in emissions from the emission unit, Norlite will document this review, implement the change, and notify DEC. If the review reveals an emission increase, Norlite will determine if the proposed change will trigger any requirement that is not applicable to this emission unit in the current permit. If no new air requirements are triggered, Norlite will review the proposed change to determine if any current monitoring or record keeping requirements in the permit must be altered. Norlite



will also review the proposed change to determine whether the control requirements of 6 NYCRR Part 212 are met. If the change meets the control criteria in Part 212, Norlite will proceed with the change. If the change does not meet the control criteria in Part 212, Norlite will submit the information to DEC for review with a request that the change be allowed. If DEC has not responded to Norlite's request within 25 days of receipt of request, Norlite will consider that the change is approved and proceed to implement the change. If the change triggers new applicable requirements or alters monitoring or record keeping requirements, Norlite will submit an application for a permit modification.

(iii) Introduction of a new material - If a change is proposed which will introduce a new material into an emission unit, but no new emissions will result, no action is required before implementing the change. If the change results in emissions from the emission unit that are not presently being emitted from this emission unit or are not on the permit, Norlite will review the proposed change to determine if the increase will trigger any air requirement that is not applicable to this emission unit in the current permit. If no new air requirements are triggered, Norlite will review to determine if any current monitoring or record keeping requirements in the current permit must be altered. If no monitoring or record keeping requirements must be altered, Norlite will review the change with respect to the control requirements of 6 NYCRR Part 212. If the change meets the control criteria in 6 NYCRR Part 212, Norlite will proceed with the change and notify DEC. If the change triggers new applicable requirements or alters monitoring or record keeping requirements, Norlite will submit an application for a permit modification.

(iv) Replacement of equipment where there is no increase in emissions - Whenever equipment is replaced in kind, the change may proceed without any review by DEC or notification to DEC. If the equipment replacement is not a replacement in kind, Norlite will review the change. If no new applicable requirements are triggered and no new monitoring and record keeping requirements are necessary, then the change may proceed without DEC approval. DEC will be notified to keep equipment records current. If the equipment replacement results in an increase in emissions, Norlite will review the proposed change to determine if the increase will trigger any requirement which is not applicable to this emission unit in the current permit. If no new requirements are triggered, Norlite will review the proposed change to determine if any current monitoring or record keeping requirements in the permit must be altered. If no monitoring or record keeping requirements must be altered, Norlite will proceed with the change and notify DEC if information included in the Title V permit application is altered. If the change triggers new applicable requirements or alters monitoring or record keeping requirements, Norlite will submit an application for a permit



modification, or notify DEC and proceed as indicated. For example, replacement of a CEMS instrument may require a calibration or cylinder gas audit (CGA) followed by a full calibration within a specified period of time. If so, Norlite will provide notification to DEC, but otherwise proceed as required for the change in instrumentation.

(v) Replacement of control equipment where the control efficiency is either unchanged or improved - If replacement of control equipment causes the control efficiency to remain the same or increase, Norlite will review the proposed change to determine if the current monitoring or record keeping requirements in the permit must be altered. If the monitoring or record keeping requirements are not altered, Norlite will proceed with the change and notify DEC if information included in the Title V permit application is altered.

(vi) Rerouting of equipment from one emission point to another - If a change is proposed which involves routing vents from a source permitted under one emission point to another, either in the same emission unit or another, Norlite will determine if any new requirements are triggered. If no new requirements are triggered, Norlite will review the proposed change with respect to 6 NYCRR Part 212. If the change meets the control criteria of 6 NYCRR Part 212, Norlite will proceed with the change and notify DEC if information included in the Title V permit application is altered.

(vii) Constructing a new source - New sources may be constructed under this protocol as long as no applicable air requirements apply to the proposed source. Examples of these sources are VOC sources with VOC ERPs less than 3 lb/hr and sources with "A" rated contaminants with ERPs less than 1 lb/hr. DEC will be notified of the change. If a contaminant not presently being emitted or new to the facility will be emitted from the proposed source, a DAR 1 analysis will be conducted to verify that uncontrolled emissions from the proposed source do not exceed guideline concentrations. Norlite will submit the information to DEC for review with a request that the construction be allowed. If DEC has not responded to Norlite's request within 14 days of receipt of request, Norlite will consider that the change is approved and proceed to implement the change.

(E) Documentation

(1) Documentation shall be maintained, by keeping records as appropriate, to demonstrate compliance with the Operational Flexibility Plan. The records shall indicate dates for each change proposed, ongoing, and completed under the Plan and include a description of that change. The description shall summarize the change and identify each affected emission unit, emission source, process, and/or emission point. The records also shall include copies of all correspondence to and from the Department concerning proposed changes.



(2) Records shall be in a format acceptable to the Department, shall include pertinent supporting data and calculations as necessary, shall be retained at the facility for five years after the date of the last entry, and upon request, shall be made available for Department review.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 24: Air pollution prohibited
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 211.1

Item 24.1:

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 25: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 212.6 (a)

Item 25.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: C-RUSHS

Emission Unit: K-ILNSG

Emission Unit: M-ISCES

Process: FSH

Emission Unit: M-ISCES

Process: KFR

Emission Unit: M-ISCES

Process: PSH

Item 25.2:



Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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 the monitoring frequency stated below while the process is in operation. 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 the standard 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.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 26: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

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

Item 26.1:

The Compliance Certification activity will be performed for the Facility.

Item 26.2:

Compliance Certification 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 27: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

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

Item 27.1:

The Compliance Certification activity will be performed for the Facility.

Item 27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

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

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



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 28: General standards - identification of equipment
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.162(c), Subpart H

Item 28.1: Each piece of equipment to which Subpart H applies shall be identified such that it can be distinguished readily from equipment that is not subject to Subpart H. This does not require physical tagging, but may be identified on a plant site plan, log entries, or by designation of process unit boundaries by some form of weatherproof identification.

**Condition 29: Applicability of 40 CFR 63 Subpart A - General Provisions
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.680(f), Subpart DD

Item 29.1:

This Condition applies to:

Emission Unit: MISCES

Emission Unit: STANKS

Item 29.2:

Owners or operators of affected sources subject to 40 CFR 63 Subpart DD must also comply with the requirements of Subpart A of Part 63, according to the applicability of Subpart A to such sources, as identified in Table 2 of Subpart DD. Subpart A is the General Provisions for the NESHAP for Source Categories regulations. The General Provisions contain requirements for performance testing, monitoring, notification, recordkeeping, reporting, and control devices that may apply to the source.

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

**Condition 30: Emission Point Definition By Emission Unit
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:6 NYCRR Subpart 201-6



Item 30.1:

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

Emission Unit: K-ILNSG

Emission Point: 00001

Height (ft.): 120

Diameter (in.): 48

NYTMN (km.): 4734.284

NYTME (km.): 606.047

Emission Point: 00002

Height (ft.): 120

Diameter (in.): 48

NYTMN (km.): 4734.267

NYTME (km.): 606.044

Emission Point: 0003A

Height (ft.): 87

Diameter (in.): 45

NYTMN (km.): 4734.277

NYTME (km.): 606.098

Emission Point: 0003B

Height (ft.): 87

Diameter (in.): 45

NYTMN (km.): 4734.263

NYTME (km.): 606.099

Item 30.2:

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

Emission Unit: M-ISCES

Emission Point: 00018

Height (ft.): 24

Diameter (in.): 10

NYTMN (km.): 4734.3

NYTME (km.): 606.196

Emission Point: 00046

Height (ft.): 12

Diameter (in.): 7

NYTMN (km.): 4734.339

NYTME (km.): 606.168

Emission Point: 00047

Height (ft.): 12

Diameter (in.): 7

NYTMN (km.): 4734.343

NYTME (km.): 606.164

Emission Point: 00048

Height (ft.): 12

Diameter (in.): 7

NYTMN (km.): 4734.345

NYTME (km.): 606.162

Emission Point: 00049

Height (ft.): 12

Diameter (in.): 7

NYTMN (km.): 4734.349

NYTME (km.): 606.156

Emission Point: 00050

Height (ft.): 10

Length (in.): 18

Width (in.): 16

NYTMN (km.): 4734.351

NYTME (km.): 606.152

Item 30.3:

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



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

Emission Unit: S-TANKS

Emission Point: 00019

Height (ft.): 12

Diameter (in.): 4

NYTMN (km.): 4734.223 NYTME (km.): 606.041

Condition 31: Process Definition By Emission Unit
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 31.1:

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

Emission Unit: C-RUSHS

Process: 212

Source Classification Code: 3-05-020-01

Process Description:

Primary plant rock crusher applicable to 6 NYCRR Part 212.

Shale is crushed to the desired size with this process which is located at the primary plant.

Emission Source/Control: WTSTC - Control

Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: SECCH - Process

Design Capacity: 100 tons per hour

Item 31.2:

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

Emission Unit: C-RUSHS

Process: FPC

Source Classification Code: 3-05-020-04

Process Description:

Finishing plant rock crusher.

Lightweight aggregate is crushed to the desired size with this process which is located at the finishing plant.

Emission Source/Control: WTSEC - Control

Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: ELJCH - Process

Design Capacity: 72 tons per hour

Item 31.3:

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

Emission Unit: C-RUSHS

Process: OOO

Source Classification Code: 3-05-020-01



Process Description:

Primary plant rock crusher applicable to 40 CFR 60 Subpart
OOO.

Shale is crushed to the desired size with the process which is located
at the primary plant.

Emission Source/Control: WTSPR - Control
Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: WTSTC - Control
Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: PRMDC - Process

Emission Source/Control: PRTJC - Process
Design Capacity: 250 tons per hour

Item 31.4:

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

Emission Unit: K-ILNSG
Process: KAF Source Classification Code: 3-05-009-15

Process Description:
Kilns #1 and #2 scrubber exhaust.

Production of expanded aggregate in rotary kilns using natural shale
as the raw material feed.

Waste Fuel A is used as a fuel, alone or in combination with
off-specification used oil, specification used oil, No. 2 oil, No. 4
oil, No. 6 oil and natural gas.

Emission Source/Control: K1CT1 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: K1CT2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: K1CT3 - Control
Control Type: SODIUM CARBONATE SCRUBBING

Emission Source/Control: K1CT4 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K1CT5 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: K2CT1 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: K2CT2 - Control



Control Type: FABRIC FILTER

Emission Source/Control: K2CT3 - Control
Control Type: SODIUM CARBONATE SCRUBBING

Emission Source/Control: K2CT4 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K2CT5 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: SKLN1 - Process

Emission Source/Control: SKLN2 - Process

Item 31.5:

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

Emission Unit: K-ILNSG
Process: KCC Source Classification Code: 3-05-900-01
Process Description: Kilns #1 and #2 clinker coolers.

Emission Source/Control: CC1CT - Control
Control Type: CENTRIFUGAL

Emission Source/Control: CC2CT - Control
Control Type: CENTRIFUGAL

Emission Source/Control: CLKN1 - Process

Emission Source/Control: CLKN2 - Process

Item 31.6:

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

Emission Unit: K-ILNSG
Process: KHF Source Classification Code: 3-05-900-01
Process Description:
Kilns #1 and #2 scrubber exhaust.

Production of expanded aggregate in rotary kilns using natural shale as the raw material feed.

Hazardous waste is used as a fuel alone or in combination with waste fuel A, waste fuel B, off-specification used oil, specification used oil, No. 2 oil, No. 4 oil, No. 6 oil and natural gas.

Emission Source/Control: K1CT1 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: K1CT2 - Control



Control Type: FABRIC FILTER

Emission Source/Control: K1CT3 - Control
Control Type: SODIUM CARBONATE SCRUBBING

Emission Source/Control: K1CT4 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K1CT5 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: K2CT1 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: K2CT2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: K2CT3 - Control
Control Type: SODIUM CARBONATE SCRUBBING

Emission Source/Control: K2CT4 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K2CT5 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: SKLN1 - Process

Emission Source/Control: SKLN2 - Process

Item 31.7:

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

Emission Unit: K-ILNSG

Process: KNA

Source Classification Code: 3-05-009-15

Process Description:

Kilns #1 and #2 scrubber exhaust. Production of expanded aggregate in rotary kilns using natural shale as the raw material feed.

Off-specification used oil is used as a fuel, alone or in combination with specification used oil, No. 2 oil, No. 4 oil, No. 6 oil and natural gas.

Emission Source/Control: K1CT1 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: K1CT2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: K1CT3 - Control
Control Type: SODIUM CARBONATE SCRUBBING



Emission Source/Control: K1CT4 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K1CT5 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: K2CT1 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: K2CT2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: K2CT3 - Control
Control Type: SODIUM CARBONATE SCRUBBING

Emission Source/Control: K2CT4 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K2CT5 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: SKLN1 - Process

Emission Source/Control: SKLN2 - Process

Item 31.8:

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

Emission Unit: K-ILNSG

Process: KNF

Source Classification Code: 3-05-900-01

Process Description:

Kilns #1 and #2 scrubber exhaust. Production of expanded aggregate in rotary kilns using natural shale as the raw material feed.

Specification used oil is used as a fuel, alone or in combination with No. 2 oil, No. 4 oil, No. 6 oil and natural gas.

Emission Source/Control: K1CT1 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: K1CT2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: K1CT3 - Control
Control Type: SODIUM CARBONATE SCRUBBING

Emission Source/Control: K1CT4 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K1CT5 - Control



Control Type: MIST ELIMINATOR

Emission Source/Control: K2CT1 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: K2CT2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: K2CT3 - Control
Control Type: SODIUM CARBONATE SCRUBBING

Emission Source/Control: K2CT4 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K2CT5 - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: SKLN1 - Process

Emission Source/Control: SKLN2 - Process

Item 31.9:

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

Emission Unit: M-ISCES
Process: DRS Source Classification Code: 5-03-008-30
Process Description: Drum Storage.

Emission Source/Control: DRUMS - Process

Item 31.10:

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

Emission Unit: M-ISCES
Process: FSH Source Classification Code: 3-05-020-06
Process Description:

Finishing plant screen, hopper, conveyors, belts and stacker operations.

Clinker is fed to the finishing plant where it is sized, screened and blended to yield light weight aggregate.

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

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

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

Emission Source/Control: WTSK1 - Control



Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: FINCV - Process

Emission Source/Control: FINHP - Process

Emission Source/Control: FINSB - Process

Emission Source/Control: FINST - Process

Emission Source/Control: OSHOP - Process

Emission Source/Control: TPDFM - Process

Item 31.11:

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

Emission Unit: M-ISCES

Process: FTS

Source Classification Code: 3-05-999-99

Process Description:

Fuel transfer system.

Fuel is transferred from the storage tanks to the kilns.

Emission Source/Control: FTRAN - Process

Item 31.12:

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

Emission Unit: M-ISCES

Process: KFR

Source Classification Code: 3-05-020-06

Process Description:

Kilns #1 and #2 feed and rim seal (front and rear).

Emission Source/Control: K1FCT - Process

Emission Source/Control: K1RSC - Process

Emission Source/Control: K2FCT - Process

Emission Source/Control: K2RSC - Process

Emission Source/Control: KN1FE - Process

Emission Source/Control: KN1RS - Process

Emission Source/Control: KN2FE - Process

Emission Source/Control: KN2RS - Process

Item 31.13:

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



Emission Unit: M-ISCES

Process: PSH

Source Classification Code: 3-05-020-06

Process Description:

Primary plant screen, hopper, conveyors, belts and stacker operations.

Shale is crushed, screened and then conveyed to the kilns to produce clinker.

Emission Source/Control: WTSFH - Control

Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: WTSPS - Control

Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: WTST1 - Control

Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: FCONV - Process

Emission Source/Control: FEDHP - Process

Emission Source/Control: FSCRN - Process

Emission Source/Control: PELET - Process

Emission Source/Control: PRMSH - Process

Emission Source/Control: PRMSR - Process

Emission Source/Control: TPDSK - Process

Emission Source/Control: TRPDS - Process

Item 31.14:

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

Emission Unit: M-ISCES

Process: QRY

Source Classification Code: 3-05-020-09

Process Description:

Quarry operations.

Quarry blasting, drilling, loading operations and vehicular transportation.

Emission Source/Control: WTSQY - Control

Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: QTRAN - Process

Emission Source/Control: QUAYB - Process



Emission Source/Control: QUAYD - Process

Emission Source/Control: QUAYP - Process

Item 31.15:

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

Emission Unit: M-ISCES

Process: TLD

Source Classification Code: 3-05-020-06

Process Description:

Loading and unloading operations.

Loading and unloading product, and vehicular transportation (excluding quarry vehicular transportation).

Emission Source/Control: WTSRT - Control

Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: LDPRT - Process

Emission Source/Control: TRANS - Process

Item 31.16:

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

Emission Unit: M-ISCES

Process: ULF

Source Classification Code: 3-05-999-99

Process Description:

Unloading of hazardous waste fuel.

Unloading of hazardous waste fuel into storage tanks.

Emission Source/Control: CARB1 - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: DRUMS - Process

Emission Source/Control: ULFFT - Process

Item 31.17:

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

Emission Unit: S-TANKS

Process: HFT

Source Classification Code: 3-05-999-99

Process Description:

Hazardous waste fuel tanks.

Above ground hazardous waste fuel tanks (6x9, 516 gallon). On the rare occasion that both kilns are not operating, these storage tanks will vent to an active carbon adsorption control device (CARB2).



Emission Source/Control: CARB2 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NBW10 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBW11 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBW12 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBW13 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBW14 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBW15 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBWT5 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBWT6 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBWT7 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBWT8 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBWT9 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: 0101A - Process
Design Capacity: 1,264 gallons

Emission Source/Control: 0101B - Process
Design Capacity: 1,264 gallons

Emission Source/Control: 0102A - Process
Design Capacity: 1,264 gallons

Emission Source/Control: 0102B - Process
Design Capacity: 1,264 gallons

Emission Source/Control: SP100 - Process
Design Capacity: 623 gallons

Emission Source/Control: T100A - Process



Design Capacity: 9,491 gallons

Emission Source/Control: T100B - Process
Design Capacity: 9,491 gallons

Emission Source/Control: T100C - Process
Design Capacity: 9,491 gallons

Emission Source/Control: T200A - Process
Design Capacity: 10,663 gallons

Emission Source/Control: T200B - Process
Design Capacity: 9,491 gallons

Emission Source/Control: T200C - Process
Design Capacity: 9,491 gallons

Item 31.18:

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

Emission Unit: S-TANKS

Process: HWT

Source Classification Code: 3-05-999-99

Process Description:

Hazardous waste fuel storage tanks.

Below ground horizontal hazardous waste fuel tanks. On the rare occasion that both kilns are not operating, these storage tanks will vent to an active carbon adsorption control device (CARB2).

Emission Source/Control: CARB2 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: NBWT1 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBWT2 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBWT3 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: NBWT4 - Control
Control Type: NITROGEN BLANKET

Emission Source/Control: HWOT1 - Process
Design Capacity: 27,903 gallons

Emission Source/Control: HWOT2 - Process
Design Capacity: 27,903 gallons

Emission Source/Control: HWOT3 - Process
Design Capacity: 27,903 gallons

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Emission Source/Control: HWOT4 - Process
Design Capacity: 18,940 gallons

Item 31.19:

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

Emission Unit: S-TPOPS
Process: FPS Source Classification Code: 3-05-020-07
Process Description:
Finishing plant storage pile operations.

Storage pile operations include the loading of material onto piles and unloading of material from piles.

Emission Source/Control: WTSFL - Control
Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: WTSFS - Control
Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: WTSPY - Control
Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: WTSTD - Control
Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: BKMSP - Process

Emission Source/Control: DPCHT - Process

Emission Source/Control: DRCHT - Process

Emission Source/Control: FINSP - Process

Emission Source/Control: FLTSP - Process

Emission Source/Control: FSTSP - Process

Emission Source/Control: TEHSP - Process

Emission Source/Control: TQTSP - Process

Item 31.20:

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

Emission Unit: S-TPOPS
Process: PPS Source Classification Code: 3-05-020-07
Process Description:
Primary plant storage pile operations.

Storage pile operations include the loading of material onto piles and



unloading of materials from piles.

Emission Source/Control: WTSKC - Control
Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: KN1CP - Process

Emission Source/Control: KN2CP - Process

Emission Source/Control: KNFSP - Process

Condition 32: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 60.672(b), NSPS Subpart OOO

Item 32.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-RUSHS
Process: OOO

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

Item 32.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility will conduct daily observations of visible emissions from the primary plant rock crusher which should not exceed 15%. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed this limit.

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 the standard 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 for a period of 5 years.

Parameter Monitored: OPACITY
Upper Permit Limit: 15 percent

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Facility DEC ID: 4010300016



Reference Test Method: EPA Reference Test Method 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 33: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 6 NYCRR 225-2.3 (b) (3)

Item 33.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KAF

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The process source must demonstrate and maintain a combustion efficiency of at least 99% while firing Waste Fuel A.

Parameter Monitored: COMBUSTION EFFICIENCY

Upper Permit Limit: 99 percent

Reference Test Method: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Monitoring Frequency: Once every five years

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 34: General provisions applicability
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1200(c), Subpart EEE

Item 34.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 34.2:

Table 1 of subpart EEE specifies the provisions of subpart A (General Provisions, 40 CFR 63.1-63.15) that apply and those that do not apply to sources affected by subpart EEE.

Condition 35: Periods when emission units are subject to Subpart EEE
Effective between the dates of 01/01/2016 and 12/31/2020



Applicable Federal Requirement:40CFR 63.1206(b)(1), Subpart EEE

Item 35.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 35.2:

The emission standards and operating requirements set forth in 40CFR63, Subpart EEE apply at all times except during periods of startup, shutdown, and malfunction; and when hazardous waste is not in the combustion chamber (i.e., the hazardous waste feed to the combustor has been cut off for a period of time not less than the hazardous waste residence time) and you have documented in the operating record that you are complying with all otherwise applicable requirements and standards, as stated in §63.1206(b)(1)(ii).

**Condition 36: Calculation of hazardous waste residence time
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.1206(b)(11), Subpart EEE

Item 36.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 36.2:

The facility must calculate the hazardous waste residence time and include the calculation in the performance test plan under §63.1207(f) and the operating record. The facility must also provide the hazardous waste residence time in the Documentation of Compliance under §63.1211(c) and the Notification of Compliance under §63.1207(j) and §63.1210(d).

**Condition 37: Documenting compliance with the emission standards based on
performance testing
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.1206(b)(12), Subpart EEE

Item 37.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 37.2:

The facility must conduct a minimum of three runs of a performance test required under §63.1207 to document compliance with the emission standards of Subpart EEE.

The facility must also document compliance with the emission standards based on the arithmetic average of the emission results of each run, except that the facility must document compliance with the destruction and removal efficiency (DRE) standard for each run of the comprehensive performance test individually.



Condition 38: General operating requirements
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(1), Subpart EEE

Item 38.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 38.2:

The facility must operate only under the operating requirements specified in the Documentation of Compliance under §63.1211(c) or the Notification of Compliance under §63.1207(j) and §63.1210(d), except:

- During performance tests under approved test plans according to §63.1207(e), (f), and (g)
- During periods of startup, shutdown, and malfunction
- When the combustion chamber does not contain hazardous waste (the hazardous waste feed to the combustor has been cut off for a period of time not less than the hazardous waste residence time) and the facility has documented in the operating record that the facility is otherwise complying with all applicable requirements and standards promulgated under section 112 of the Clean Air Act

The Documentation of Compliance and the Notification of Compliance must contain operating requirements including, but not limited to, the operating requirements in section §63.1206 and §63.1209. Failure to comply with the operating requirements is failure to ensure compliance with the emission standards of Subpart EEE.

Operating requirements in the Notification of Compliance are applicable requirements for purposes of 40CFR70 and 71 and will be incorporated in the Title V permit.

Condition 39: Identification of projected oxygen correction factor
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(2)(iii), Subpart EEE

Item 39.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 39.2:

The facility must identify in the startup/shutdown/malfunction plan a projected oxygen correction factor based on normal operations to use during periods of startup and shutdown.

Condition 40: Recording of startup/shutdown/malfunction plan
Effective between the dates of 01/01/2016 and 12/31/2020



Applicable Federal Requirement:40CFR 63.1206(c)(2)(iv), Subpart EEE

Item 40.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 40.2:

The facility must record the startup/shutdown/malfunction plan in the operating record.

Condition 41: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(2)(v)('A'), Subpart EEE

Item 41.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

During malfunctions, the automatic waste feed cutoff requirements of 40 CFR 63.1206(c)(3) continue to apply, except for exceedances as described in 40 CFR 63.1206(c)(3)(v) and (vi). If a Subpart EEE emission standard monitored by a CEMS or COMS or an operating limit under 40 CFR 63.1209 is exceeded, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed, except as provided in the ramping down of the waste feed provisions in 40 CFR 63.1206(c)(3)(viii). If the malfunction itself prevents immediate and automatic cutoff of the hazardous waste feed, however, the facility must cease feeding hazardous waste as quickly as possible.

Although the automatic waste feed cutoff requirements continue to apply during a malfunction, an exceedance of an emission standard monitored by a CEMS or COMS or operating limit specified in 40 CFR 63.1209 is not a violation of Subpart EEE if you take the corrective measures prescribed in the startup, shutdown, and malfunction (SSM) plan.

For each set of 10 exceedances of an emissions standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block



period, the owner or operator must:

- within 45 days of the 10th exceedance, complete an investigation of the cause of each exceedance and evaluation of approaches to minimize the frequency, duration, and severity of each exceedance, and revise the SSM plan as warranted by the evaluation to minimize the frequency, duration, and severity of each exceedance; and

- record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the SSM plan, in the excess emissions report required under 40 CFR 63.10(e)(3).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 42: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1206(c)(3)(i), Subpart EEE

Item 42.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Upon the compliance date, the facility must operate the hazardous waste combustor with a functioning system that immediately and automatically cuts off the hazardous waste feed, except as provided by the ramping down feed waste provisions in 40 CFR 63.1206(c)(3)(viii):

- 1) when any of the operating parameters limits specified under 40 CFR 63.1209, emission standards monitored by a CEMS, or the allowable combustion chamber pressure are exceeded;
- 2) when the span value of any CMS detector, except a CEMS, is met or exceeded;
- 3) upon malfunction of a CMS monitoring an operating parameter limit specified under 40 CFR 63.1209 or an emission level; or
- 4) when any component of the automatic waste feed cutoff system fails.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION



Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 43: Ducting of combustion gases
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(3)(ii), Subpart EEE

Item 43.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 43.2:

During an automatic waste feed cutoff (AWFCO), the facility must continue to duct combustion gases to the air pollution control system while hazardous waste remains in the combustion chamber (i.e., if the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated).

Condition 44: Restarting waste feed
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(3)(iii), Subpart EEE

Item 44.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 44.2:

The facility must continue to monitor during the cutoff the operating parameters for which limits are established under 40 CFR 63.1209 and the emissions required under that section to be monitored by a CEMS, and the facility must not restart the hazardous waste feed until the operating parameters and emission levels are within the specified limits.

Condition 45: Failure of the AWFCO system
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(3)(iv), Subpart EEE

Item 45.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 45.2:

If the automatic waste feed cutoff (AWFCO) system fails to automatically and immediately cutoff the flow of hazardous waste upon exceedance of parameter required to be interlocked with the AWFCO system under 40 CFR 63.1206(c)(3)(i), the facility has failed to comply with the AWFCO requirements of 40 CFR 63.1206(c)(3). If an equipment or

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other failure prevents immediate and automatic cutoff of the hazardous waste feed, however, the facility must cease feeding hazardous waste as quickly as possible.

Condition 46: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(3)(v), Subpart EEE

Item 46.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If, after any automatic waste feed cutoff (AWFCO), there is an exceedance of an emission standard or operating requirement, irrespective of whether the exceedance occurred while hazardous waste remained in the combustion chamber (i.e., whether the hazardous waste residence time has transpired since the hazardous waste feed cutoff system was activated), the owner or operator must investigate the cause of the AWFCO, take appropriate corrective measures to minimize future AWFCOs, and record the findings and corrective measures in the operating record.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 47: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(3)(vi), Subpart EEE

Item 47.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



Monitoring Description:

For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, the facility must submit to the Administrator a written report within 5 calendar days of the 10th exceedance documenting the exceedances and results of the investigation and corrective measures taken. On a case-by-case basis, the Administrator may require excessive exceedance reporting when fewer than 10 exceedances occur during a 60-day block period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 48: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(3)(vii), Subpart EEE

Item 48.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The automatic waste feed cutoff system (AWFCO) and associated alarms must be fully tested at least monthly to verify operability if the facility documents in the operating record that weekly inspections will unduly restrict or upset operations and that less frequent inspection will be adequate. This change is subject to Department approval. At a minimum, the facility must conduct operability testing at least weekly on a varied parameter basis. The facility must document and record in the operating record AWFCO operability test procedures and results.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 49: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(6)(i), Subpart EEE



Item 49.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must establish training programs for all categories of personnel whose activities may reasonably be expected to directly affect emissions of hazardous air pollutants from the source. Such persons include, but are not limited to, chief facility operators, control room operators, continuous monitoring system operators, persons that sample and analyze feedstreams, persons that manage and charge feedstreams to the combustor, persons that operate emission control devices, and ash and waste handlers.

Each training program shall be of a technical level commensurate with the person's job duties specified in the training manual.

Each commensurate training program shall require an examination to be administered by the instructor at the end of the training course. Passing of this test shall be deemed the 'certification' for personnel, except that, for control room operators, the training and certification program shall be as specified in 40 CFR 63.1206(c)(6)(iii) through (vi).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 50: Certified operator on site
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(6)(ii), Subpart EEE

Item 50.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 50.2:

The facility must ensure that the source is operated and maintained at all times by persons who are trained and certified to perform these and any other duties that may affect emissions of hazardous air pollutants. A certified control room operator must be on duty at all times the source is in operation.

Condition 51: Compliance Certification



Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(6)(iv), Subpart EEE

Item 51.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Control room operators of cement kilns, lightweight aggregate kilns, solid fuel boilers, liquid fuel boilers, and hydrochloric acid production furnaces must be trained and certified under a site-specific, source-developed and implemented program that meets the requirements of 40 CFR 63.1206(c)(6)(v) of Subpart EEE.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 52: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(6)(v), Subpart EEE

Item 52.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Site-specific, source developed and implemented training programs for control room operators must include the following elements:

1) Training on the following subjects:

- environmental concerns, including types of emissions;
- basic combustion principles, including products of combustion
- operation of the specific type of combustor used by the operator, including proper startup, waste firing, and shutdown procedures
- combustion controls and continuous monitoring systems
- operation of air pollution control equipment and factors affecting performance
- inspection and maintenance of the combustor, continuous monitoring systems, and air pollution control devices



- actions to correct malfunctions or conditions that may lead to malfunction
- residue characteristics and handling procedures
- applicable Federal, state, and local regulations, including OSHA workplace standards
- 2) An examination designed and administered by the instructor; and
- 3) Written material covering the training course topics that may serve as reference material following completion of the course

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 53: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1206(c)(6)(vi), Subpart EEE

Item 53.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To maintain control room operator qualification under a site-specific, source developed and implemented training program as provided by 40 CFR 63.1206(c)(6)(v), control room operators must complete an annual review or refresher course covering, at a minimum, the following topics:

- update of regulations
- combustor operation, including startup and shutdown procedures, waste firing, and residue handling
- inspection and maintenance
- responses to malfunctions or conditions that may lead to malfunction
- operating problems encountered by the operator

Monitoring Frequency: ANNUALLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 54: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020



Applicable Federal Requirement:40CFR 63.1206(c)(6)(vii), Subpart EEE

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must record the operator training and certification program in the operating record.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 55: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(7), Subpart EEE

Item 55.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must prepare and at all times operate according to an operation and maintenance plan that describes in detail procedures for operation, inspection, maintenance, and corrective measures for all components of the combustor, including associated pollution control equipment, that could affect emissions of regulated hazardous air pollutants.

The plan must prescribe how the facility will operate and maintain the combustor in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels achieved during the comprehensive performance test.



This plan ensures compliance with the operation and maintenance requirements of §63.6(e) and minimizes emissions of pollutants, automatic waste feed cutoffs, and malfunctions.

The facility must record the operation and maintenance plan in the operating record.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

**Condition 56: Bag Leak Detector System requirements
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement: 40CFR 63.1206(c)(8)(i), Subpart EEE

Item 56.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 56.2:

If the facility is equipped with a baghouse (fabric filter), the facility must continuously operate either:

A) A bag leak detection system (BLDS) that meets the specifications and requirements of §63.1206(c)(8)(ii) and the facility must comply with the corrective measures and notification requirements of §63.1206(c)(8)(iii) and (iv); or

B) A particulate matter detection system under §63.1206(c)(9).

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Condition 57: Compliance Certification

The facility's bag leak detection system
Effective between the dates of 01/01/2016 and 12/31/2020

A) must be certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations

Item 57.1: of 1.0 mg/acfm unless the facility demonstrates, pursuant to procedures in §63.1209(a)(1), that a higher detection limit would routinely detect particulate matter loadings during normal

operation.

Emission Unit: K-ILNSG

Process: KHF

B) shall provide output of relative or absolute particulate matter

loadings.

Regulated Contaminant(s): CAS No: 0NY100-00-0 TOTAL HAP

Item 57.2: alarm when an increase in relative particulate loadings is detected
Compliance Certification shall include the following monitoring:

D) shall be installed and operated in a manner consistent with



available written guidance from the EPA or, in the absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation, and adjustment of the system;

E) the initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time;

F) following initial adjustment, the facility must not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in the operation and maintenance plan required under §63.1206(c)(7)(i). The facility must not increase the sensitivity by more than 100% or decrease the sensitivity by more than 50% over a 365-day period unless such adjustment follows a complete baghouse inspection which demonstrates the baghouse is in good operating condition;

G) for negative pressure or induced air baghouses, and positive pressure baghouses that are discharged to the atmosphere through a stack, the bag leak detector shall be installed downstream of the baghouse and upstream of any wet acid gas scrubber; and

H) where multiple detectors are required, the system's instrumentation and alarm system may be shared among the detectors.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 58: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(8)(iii), Subpart EEE

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



The operating and maintenance plan required by §63.1206(c)(7) must include a corrective measures plan that specifies the procedures the facility will follow in the case of a bag leak detection system alarm.

The corrective measures plan must include, at a minimum, the procedures used to determine and record the time and cause of the alarm as well as the corrective measures taken to correct the control device malfunction or minimize emissions as specified below. Failure to initiate the corrective measures required by this condition is failure to ensure compliance with the emission standards in subpart EEE.

A) The facility must initiate the procedures used to determine the cause of the alarm within 30 minutes of the time the alarm first sounds; and

B) The facility must alleviate the cause of the alarm by taking the necessary corrective measure(s) which may include, but are not limited to, the actions listed in §63.1206(c)(8)(iii)(B)(1)-(6).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 59: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1206(c)(8)(iv), Subpart EEE

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the facility operates the combustor when the detector response exceeds the alarm set-point more than 5% of the time during any 6-month block time period, the facility must submit a notification to the NYSDEC within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and the revisions to the design, operation, or maintenance of the combustor or baghouse the facility is taking to minimize exceedances. To document compliance with this requirement:



A) The facility must keep records of the date, time, and duration of each alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action taken;

B) The facility must record the percent of the operating time during each 6-month period that the alarm sounds;

C) In calculating the operating time percentage, if inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted; and

D) If corrective action is required, each alarm shall be counted as a minimum of one hour.

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 60: Comprehensive Performance Test (CPT)
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1207, Subpart EEE

Item 60.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 60.2:

The permittee must conduct comprehensive performance tests to demonstrate compliance with the emission standards provided by Subpart EEE, establish limits for the operating parameters provided by 40 CFR 63.1209, and demonstrate compliance with the performance specifications for continuous monitoring systems (CMS).

The comprehensive performance test (CPT) must commence no later than 61 (sixty-one) months after the date of commencing the previous CPT, unless the Administrator grants a time extension under 40 CFR 63.1207(i) or a waiver pursuant to 40 CFR 63.1207(e)(3).

The CPT must be completed within the 60 (sixty) days after the date of commencement, unless the Administrator determines that a time extension is warranted based on documentation of factors beyond the facility's control that prevent the facility from meeting the 60-day deadline.

The permittee must submit to the NYSDEC a notification of intention to conduct a CPT and CMS performance evaluation, and a site specific test plan and CMS performance evaluation plan at least one year before the performance test and performance evaluation are scheduled to begin.



The provisions of 40 CFR 63.7(c)(2)(i)-(iii) and (v) regarding the content of the test plan apply. In addition, the CPT plan must include content specified at 40 CFR 63.1207(f)(1).

The permittee must submit to the NYSDEC a notification of intention to conduct the CPT at least 60 (sixty) calendar days before the test is scheduled to begin.

The permittee must make the site-specific test plan and CMS performance evaluation test plan available to the public for review no later than 60 calendar days before initiation of the test. The permittee must issue a public notice and allow for the plans to be reviewed as described in 40 CFR 63.1207(e)(2).

**Condition 61: Confirmatory Performance Test (CfPT)
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement: 40CFR 63.1207, Subpart EEE

Item 61.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 61.2:

The permittee must conduct confirmatory performance tests to (i) demonstrate compliance with the dioxin/furan emission standard in Subpart EEE when the source operates under normal operating conditions; and (ii) conduct a performance evaluation of continuous monitoring systems (CMS) required for compliance assurance with the dioxin/furan emission standard under 40 CFR 63.1209(k).

The Confirmatory Performance Test (CfPT) must commence no earlier than 18 months and no later than 31 (thirty-one) months after the date of commencing the previous CfPT, unless the Administrator grants a time extension under 40 CFR 63.1207(i) or a waiver pursuant to 40 CFR 63.1207(e)(3).

The CfPT must be completed within the 60 (sixty) days after the date of commencement, unless the Administrator determines that a time extension is warranted based on documentation of factors beyond the facility's control that prevent the facility from meeting the 60-day deadline.

The permittee must submit to the NYSDEC a notification of intention to conduct a CfPT and CMS performance evaluation, and a site specific test plan and CMS performance evaluation plan at least 60 calendar days before the performance test are scheduled to begin.

The provisions of 40 CFR 63.7(c)(2)(i)-(iii) and (v) regarding the content of the test plan apply. In addition, the CfPT plan must include content specified at 40 CFR 63.1207(f)(2).

The permittee must make the site-specific test plan and CMS performance evaluation test plan available to the public for review no later than 60 calendar days before initiation of the test. The permittee must issue a public notice and allow for the plans to be reviewed as described in 40 CFR 63.1207(e)(2).

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Monitoring Description:

The facility must conduct a CPT to periodically verify compliance with the mercury emission limit provided in 40 CFR Part 63.1221(a)(2)(i). The CPT must be done in accordance with the test protocol approved by the Department.

Parameter Monitored: MERCURY

Upper Permit Limit: 120 micrograms per dry standard cubic meter
(corrected to 7% oxygen)

Reference Test Method: EPA Reference Test Method 29

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 64: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1207(b)(1), Subpart EEE

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 007439-92-1 LEAD

CAS No: 007440-43-9 CADMIUM

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility must conduct a CPT to periodically verify compliance with the combined cadmium and lead emission limit provided in 40 CFR Part 63.1221(a)(3)(ii). The CPT must be done in accordance with the test protocol approved by the Department.

Upper Permit Limit: 250 micrograms per dry standard cubic meter
(corrected to 7% oxygen)

Reference Test Method: EPA Reference Test Method 29

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 65: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1207(b)(1), Subpart EEE

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 007439-92-1 LEAD

CAS No: 007440-43-9 CADMIUM

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility must conduct a CPT to periodically verify compliance with the combined cadmium and lead emission limit provided in 40 CFR Part 63.1221(a)(3)(i). The CPT must be done in accordance with the test protocol approved by the Department.

Upper Permit Limit: 0.0003 pounds per million Btus

Reference Test Method: EPA Reference Test Method 29

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 66: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1207(b)(1), Subpart EEE

Item 66.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 007440-41-7 BERYLLIUM

CAS No: 007440-47-3 CHROMIUM

CAS No: 007440-38-2 ARSENIC

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility must conduct a CPT to periodically verify compliance with the combined arsenic, beryllium and chromium emission limit provided in 40 CFR Part 63.1221(a)(4)(i). The CPT must be done in

New York State Department of Environmental Conservation

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accordance with the test protocol approved by the Department.

Upper Permit Limit: 0.000095 pounds per million Btus
Reference Test Method: EPA Reference Test Method 29
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 67: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1207(b)(1), Subpart EEE

Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 007440-41-7 BERYLLIUM
CAS No: 007440-47-3 CHROMIUM
CAS No: 007440-38-2 ARSENIC

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility must conduct a CPT to periodically verify compliance with the combined arsenic, beryllium and chromium emission limit provided in 40 CFR Part 63.1221(a)(4)(ii). The CPT must be done in accordance with the test protocol approved by the Department.

Upper Permit Limit: 110 micrograms per dry standard cubic meter
(corrected to 7% oxygen)

Reference Test Method: EPA Reference Test Method 29
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 68: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1207(b)(1), Subpart EEE

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Process: KHF

Regulated Contaminant(s):

CAS No: 051207-31-9 2,3,7,8-TETRACHLORODIBENZOFURAN
CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility must conduct a CPT to periodically verify compliance with the dioxin and furan emission limit provided in 40 CFR Part 63.1221(a)(1)(i). The CPT must be done in accordance with the test protocol approved by the Department.

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

Upper Permit Limit: 0.20 nanogram toxicity equivalence per dry standard cu meter, corrected to 7% O₂

Reference Test Method: EPA Reference Test Method 0023A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 69: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1207(b)(1), Subpart EEE

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility must conduct a CPT to periodically verify compliance with the particulate matter emission limit provided in 40 CFR Part 63.1221(a)(7). The CPT must be done in accordance with the test protocol approved by the Department.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.025 grains per dry standard cubic foot (corrected to 7% O₂)

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Reference Test Method: EPA Reference Test Method 5
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 70: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1207(b)(2), Subpart EEE

Item 70.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):

CAS No: 051207-31-9 2,3,7,8-TETRACHLORODIBENZOFURAN
CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 70.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility must conduct a CfPT to periodically verify compliance with the dioxin and furan emission limit provided in 40 CFR Part 63.1221(a)(1)(i). The CfPT must be done in accordance with the test protocol approved by the Department.

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

Upper Permit Limit: 0.20 nanogram toxicity equivalence per dry
standard cu meter, corrected to 7% O₂

Reference Test Method: EPA Reference Test Method 0023A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 71: Operating conditions during comprehensive performance test
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1207(g)(1), Subpart EEE

Item 71.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 71.2:

The facility must comply with the provisions of §63.7(e). Conducting performance testing under operating conditions representative of the extreme range of normal conditions is



consistent with the requirement of §63.7(e)(1) to conduct performance testing under representative operating conditions.

For the following parameters, the facility must operate the combustor during the performance test under normal conditions (or conditions that will result in higher than normal emissions):

- chlorine feedrate: the facility must feed normal or higher levels of chlorine during the dioxin/furan performance test;
- cleaning cycle of the particulate matter control device: the facility must conduct the following tests when the particulate matter control device undergoes its normal or more frequent cleaning cycle; the particulate matter, semivolatile metal, and low volatile metal performance tests; and the dioxin/furan and mercury performance tests if activated carbon injection or a carbon bed is used.

Given that the facility must establish limits for the applicable operating parameters specified in §63.1209 based on operations during the comprehensive performance test, the facility may conduct testing under two or more operating modes to provide operating flexibility.

Prior to obtaining performance test data, the facility must operate under performance test conditions until the facility reaches steady-state operations with respect to emissions of pollutants the facility must measure during the performance test and operating parameters under §63.1209 for which the facility must establish limits. During system conditioning, the facility must ensure that each operating parameter for which the facility must establish a limit is held at the level planned for the performance test. The facility must include documentation in the performance test plan under §63.1207(f) justifying the duration of system conditioning.

**Condition 72: Operating conditions during confirmatory performance testing
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement: 40CFR 63.1207(g)(2), Subpart EEE

Item 72.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 72.2:

The facility must conduct confirmatory performance testing for dioxin/furan under normal operating conditions for the following parameters:

1) Carbon monoxide (or hydrocarbon) CEMS emissions levels must be within the range of the average value to the maximum value allowed, except as provided for in 40 CFR 63.1207(g)(2)(v). The average value is defined as the sum of the hourly rolling average values recorded (each minute) over the previous 12 months, divided by the number of rolling averages recorded during that time. The average value must not include calibration data, startup data, shutdown data, malfunction data, and data obtained when not burning hazardous waste.

2) Each operating limit (specified in 40 CFR 63.1209) established to maintain compliance with the dioxin/furan emission standard must be held within the range of the average value over the previous 12 months and the maximum or minimum, as appropriate, that is allowed. The average



value is defined as the sum of the rolling average values recorded over the previous 12 months, divided by the number of rolling averages recorded during that time. The average value must not include calibration data, startup data, shutdown data, malfunction data, and data obtained when not burning hazardous waste.

3) The facility must feed chlorine at normal feedrates or greater.

4) For combustors equipped with carbon injection or carbon bed, normal cleaning cycle of the particulate matter control device.

**Condition 73: Operating conditions during subsequent testing
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.1207(h)(1), Subpart EEE

Item 73.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 73.2:

Current operating parameter limits established under §63.1209 are waived during subsequent comprehensive performance testing.

**Condition 74: Operating conditions during subsequent pretesting
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.1207(h)(2), Subpart EEE

Item 74.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 74.2:

Current operating parameter limits are waived during pretesting prior to comprehensive performance testing for an aggregate time not to exceed 720 hours of operation (renewable at the discretion of the Administrator) under an approved test plan or if the source records the results of the pretesting. Pretesting means:

1) Operations when stack emissions testing for dioxin/furan, mercury, semivolatile metals, low volatile metals, particulate matter, or hydrogen chloride/chlorine gas is being performed; and

2) Operations to reach steady-state operating conditions prior to stack emissions testing under 40 CFR 63.1207(g)(1)(iii).

**Condition 75: Notification of compliance for comprehensive performance test
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.1207(j)(1), Subpart EEE



Item 75.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 75.2:

Except as provided in §63.1207(j)(4) and (5), within 90 days of completion of a comprehensive performance test, the facility must postmark a Notification of Compliance documenting compliance with the emission standards and continuous monitoring system requirements, and identifying operating parameter limits under §63.1209. Upon postmark of the Notification of Compliance, the facility must comply with all operating requirements specified in the Notification of Compliance in lieu of the limits specified in the Documentation of Compliance required under §63.1211(c).

**Condition 76: Notification of compliance for confirmatory performance testing
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.1207(j)(2), Subpart EEE

Item 76.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 76.2:

Except as provided in 40 CFR 63.1207(j)(4), within 90 days of completion of a confirmatory performance test, the facility must postmark a Notification of Compliance documenting compliance or noncompliance with the applicable dioxin/furan emission standard.

**Condition 77: Failure of a comprehensive performance test
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.1207(l)(1), Subpart EEE

Item 77.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 77.2:

The provisions of 40 CFR 63.1207(l) do not apply to the initial comprehensive performance test if the facility conducts the test prior to the facility's compliance date.

(i) If the owner or operator determines (based on CEM recordings, results of analyses of stack samples, or results of CMS performance evaluations) that the facility has exceeded any emission standard during a comprehensive performance test for a mode of operation, the facility must cease hazardous waste burning immediately under that mode of operation. The facility must make this determination within 90 days following completion of the performance test.

(ii) If the facility has failed to demonstrate compliance with the emissions standards for any mode of operation:



- A) Prior to submitting a revised Notification of Compliance as provided for in 40 CFR 63.1207(l)(1)(ii)(‘C’), the facility may burn hazardous waste only for the purpose of pretesting or comprehensive performance testing under revised operating conditions, and only for a maximum of 720 hours (renewable at the discretion of the Administrator), except as provided by 40 CFR 63.1207(l)(3).
- B) The facility must conduct a performance test under revised operating conditions following the requirements for performance testing of 40 CFR 63.1207(l); and
- C) The facility must submit to the Administrator a Notification of Compliance subsequent to the new comprehensive performance test.

Condition 78: Failure of a confirmatory performance test
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1207(l)(2), Subpart EEE

Item 78.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 78.2:

If the facility determines (based on CEM recordings, results of analyses of stack samples, or results of CMS performance evaluations) that the facility has failed the dioxin/furan emission standard during a confirmatory performance test, the facility must cease burning hazardous waste immediately. The facility must make this determination within 90 days following completion of the performance test. To burn hazardous waste in the future:

- i) The facility must submit to the Administrator for review and approval a test plan to conduct a comprehensive performance test to identify revised limits on the applicable dioxin/furan operating parameters specified in 40 CFR 63.1209(k)
- ii) The facility must submit to the Administrator a Notification of Compliance with the dioxin/furan emission standard under the provisions of 40 CFR 63.1207(j), (k), and (l). The facility must include in the Notification of Compliance the revised limits on the applicable dioxin/furan operating parameters specified in 40 CFR 63.1209(k); and
- iii) Until the Notification of Compliance is submitted, the facility must not burn hazardous waste except for purposes of pretesting or confirmatory performance testing, and for a maximum of 720 hours (renewable at the discretion of the Administrator), except as provided by 40 CFR 63.1207(l)(3).

Condition 79: Petition to burn hazardous waste
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1207(l)(3), Subpart EEE

Item 79.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF



Item 79.2:

The facility may petition the Administrator to obtain written approval to burn hazardous waste in the interim prior to submitting a Notification of Compliance for purposes other than testing or pretesting. The facility must specify operating requirements, including limits on operating parameters, that the facility determines will ensure compliance with the emission standards of Subpart EEE based on available information including data from the failed performance test. The Administrator will review, modify as necessary, and approve if warranted the interim operating requirements. An approval of interim operating requirements will include a schedule for submitting a Notification of Compliance.

Condition 80: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(a)(1), Subpart EEE

Item 80.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must use either a carbon monoxide or hydrocarbon CEMS to demonstrate and monitor compliance with the carbon monoxide and hydrocarbon standard under Subpart EEE. The facility must also use an oxygen CEMS to continuously correct the carbon monoxide or hydrocarbon level to 7% oxygen.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 81: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(a)(2), Subpart EEE

Item 81.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG



Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 81.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must install, calibrate, maintain, and continuously operate the CEMS and COMS in compliance with the quality assurance procedures provided in the appendix to Subpart EEE and Performance Specifications 1 (opacity), 4B (carbon monoxide and oxygen), and 8A (hydrocarbons) in appendix B, part 60 of Chapter 40.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 82: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(a)(3), Subpart EEE

Item 82.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 82.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If a carbon monoxide CEMS detects a response that results in a one-minute average at or above the 3000 ppmv span level required by Performance Specification 4B in appendix B, part 60 of Chapter 40, the one-minute average must be recorded as 10,000 ppmv. The one-minute 10,000 ppmv value must be used for calculating the hourly rolling average carbon monoxide level.

Carbon monoxide CEMS that use a span value of 10,000 ppmv when one-minute carbon monoxide levels are equal to or exceed 3,000 ppmv are not subject to the above requirement. Carbon monoxide CEMS that use a span value of 10,000 are subject to the same CEMS performance



and equipment specifications when operating in the range of 3,000 ppmv to 10,000 ppmv that are provided by Performance Specification 4B for other carbon monoxide CEMS, except:

- calibration drift must be less than 300 ppmv; and
- calibration error must be less than 500 ppmv

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 83: Calculation of rolling averages
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(a)(6), Subpart EEE

Item 83.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 83.2:

- Initially, the carbon monoxide or hydrocarbon CEMS must begin recording one-minute average values by 12:01AM and hourly rolling average values by 1:01AM, when 60 one-minute values will be available for calculating the initial hourly rolling average for those sources that come into compliance on the regulatory compliance date. Sources that elect to come into compliance before the regulatory compliance date must begin recording one-minute and hourly rolling average values within 60 seconds and 60 minutes (when 60 one-minute values will be available for calculating the initial hourly rolling average), respectively, from the time at which compliance begins.

- Upon intermittent operations, the facility must ignore periods of time when one-minute values are not available for calculating the hourly rolling average. When one-minute values become available again, the first one-minute value is added to the previous 59 values to calculate the hourly rolling average.

- When the hazardous waste feed is cutoff, the facility must continue monitoring carbon monoxide and hydrocarbons when the hazardous waste feed is cutoff if the source is operating. The facility must not resume feeding hazardous waste if the emission levels exceed the standard. The facility is not subject to the CEMS requirements of Subpart EEE during periods of time when the source is not burning hazardous waste.

Condition 84: Continuous monitoring systems for compliance with operating parameter limits
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(b)(1), Subpart EEE

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Item 84.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 84.2:

The facility must use continuous monitoring systems (CMS) such as thermocouples, pressure transducers, flow meters, etc. to document compliance with the applicable operating parameter limits under §63.1209.

Condition 85: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(b)(2)(i), Subpart EEE

Item 85.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must install and operate continuous monitoring systems (CMS) other than CEMS in conformance with §63.8(c)(3) that requires the facility to, at a minimum, comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the CMS.

The calibration of thermocouples must be verified at a frequency and in a manner consistent with manufacturer specifications, but no less frequent than once per year. The facility must operate and maintain optical pyrometers in accordance with manufacturer specifications unless otherwise approved by the Administrator. The facility must calibrate optical pyrometers in accordance with the frequency and procedures recommended by the manufacturer, but no less frequent than once per year, unless otherwise approved by the Administrator.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 86: Sampling intervals for continuous monitoring systems
Effective between the dates of 01/01/2016 and 12/31/2020



Applicable Federal Requirement:40CFR 63.1209(b)(3), Subpart EEE

Item 86.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 86.2:

Continuous monitoring systems (CMS) must sample the regulated parameter without interruption, and evaluate the detector response at least once each 15 seconds, and compute and record the average values at least every 60 seconds.

Condition 87: Continuous Monitoring Systems span limit
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(b)(4), Subpart EEE

Item 87.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 87.2:

The span of the non CEMS continuous monitoring system (CMS) detector must not be exceeded. The facility must interlock the span limits into the automatic waste feed cutoff system required by §63.1206(c)(3).

Condition 88: Calculation of rolling averages for continuous monitoring systems
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(b)(5), Subpart EEE

Item 88.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 88.2:

Initially - continuous monitoring systems (CMS's) must begin recording one-minute average values by 12:01AM, hourly rolling average values by 1:01AM (e.g., when 60 one-minute values will be available for calculating the initial hourly rolling average), and twelve-hour rolling averages by 12:01PM (e.g., when 720 one-minute averages are available to calculate a 12-hour rolling average), for those sources that come into compliance on the regulatory compliance date. Sources that elect to come into compliance before the regulatory compliance date must begin recording one-minute, hourly rolling average, and 12-hour rolling average values within 60 seconds, 60 minutes (when 60 one-minute values will be available for calculating the initial hourly rolling average), and 720 minutes (when 720 one-minute values will be available for calculating the initial 12-hour hourly rolling average) respectively, from the time at which compliance begins.

Upon intermittent operations - The facility must ignore periods of time when one-minute values are not available for calculating rolling averages. When one-minute values become



available again, the first one-minute value is added to the previous one-minute values to calculate rolling averages.

When hazardous waste feed is cutoff - The facility must continue monitoring operating parameter limits with a CMS when the hazardous waste feed is cutoff if the source is operating. The facility must not resume feeding hazardous waste if an operating parameter exceeds its limit. The facility is not subject to the CMS requirements of Subpart EEE during periods of time when the facility meets the requirements of §63.1206(b)(1)(ii) - compliance with emissions standards for nonhazardous waste burning sources when the facility is not burning hazardous waste.

Condition 89: General feedstream analysis requirements
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(c)(1), Subpart EEE

Item 89.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 89.2:

Prior to feeding the material, the facility must obtain an analysis of each feedstream that is sufficient to document compliance with the applicable feedrate limits provided by §63.1209.

Condition 90: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(c)(2), Subpart EEE

Item 90.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must develop and implement a feedstream analysis plan and record it in the operating record. The plan must specify at a minimum:

- 1) The parameters for which the facility will analyze each feedstream to ensure compliance with the operating parameter limits of §63.1209.
- 2) Whether the facility will obtain the analysis by performing



sampling and analysis or by other methods, such as using analytical information obtained from others or using other published or documented data or information.

3) How the facility will use the analysis to document compliance with applicable feedrate limits (e.g., if the facility blends hazardous wastes and obtains analyses of the wastes prior to blending but not of the blended, as-fired, waste, the plan must describe how the facility will determine the pertinent parameters of the blended waste).

4) The test methods which the facility will use to obtain the analysis.

5) The sampling method which the facility will use to obtain a representative sample of each feedstream to be analyzed using sampling methods described in appendix IX, part 266 of Chapter 40, or an equivalent method.

6) The frequency with which the facility will review or repeat the initial analysis of the feedstream to ensure that the analysis is accurate and up to date.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 91: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(c)(4), Subpart EEE

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 91.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To comply with the applicable feedrate limits of §63.1209, the facility must monitor and record feedrates as follows:

- Determine and record the value of the parameter for each feedstream by sampling and analysis or other method;
- Determine and record the mass or volume flowrate of each feedstream by a CMS. If the facility determines flowrate of a feedstream by volume, the facility must determine and record the density of the feedstream by sampling and analysis (unless the facility reports the constituent concentration in units of weight per unit volume (e.g., mg/l)); and
- Calculate and record the mass feedrate of the parameter per unit time.



Monitoring Frequency: CONTINUOUS
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

**Condition 92: Waiver of monitoring of constituents in certain feedstreams
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.1209(c)(5), Subpart EEE

Item 92.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 92.2:

The facility is not required to monitor levels of metals or chlorine in the following feedstreams to document compliance with the feedrate limits under §63.1209 provided that the facility documents in the comprehensive performance test plan the expected levels of the constituent in the feedstream and account for those assumed feedrate levels in documenting compliance with feedrate limits: natural gas, process air, and feedstreams from vapor recovery systems.

**Condition 93: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.1209(d), Subpart EEE

Item 93.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 93.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The requirements of §63.8(d) (quality control program) and (e) (performance evaluation of continuous monitoring systems) apply, except that the facility must conduct performance evaluations of components of the CMS under the frequency and procedures (for example, submittal of performance evaluation test plan for review and approval) applicable to performance tests as provided by §63.1207.

The facility must comply with the quality assurance procedures for CEMS prescribed in the appendix to Subpart EEE.

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 94: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(j)(1), Subpart EEE

Item 94.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 94.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

To remain in compliance with the destruction and removal efficiency (DRE) standard, the facility must establish an operating limit during the comprehensive performance test (or during a previous DRE test under the provisions of §63.1206(b)(7)) for the minimum kiln back-end combustion chamber temperature, and comply with this limit at all times that hazardous waste remains in the combustion chamber (i.e., the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated).

The facility must measure the temperature of each combustion chamber at a location that best represents, as practicable, the bulk gas temperature in the combustion zone. The facility must document the temperature measurement location in the test plan submitted under §63.1207(e). The facility must establish a minimum hourly rolling average limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: TEMPERATURE
Lower Permit Limit: 895 degrees Fahrenheit
Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.



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

Condition 95: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(j)(2), Subpart EEE

Item 95.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 95.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

To remain in compliance with the destruction and removal efficiency (DRE) standard, the facility must establish an operating limit during the comprehensive performance test (or during a previous DRE test under provisions of §63.1206(b)(7)) for the maximum production rate, and comply with this limit at all times that hazardous waste remains in the combustion chamber (i.e., the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated).

As an indicator of gas residence time in the control device, the facility must establish a limit on the maximum shale feedrate that the facility documents in the site-specific test plan as an appropriate surrogate for gas residence time. The facility must establish the limit as the average of the maximum hourly rolling average for each test run.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: MASS FLOW RATE

Upper Permit Limit: 22.8 tons per hour

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Condition 96: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(j)(3), Subpart EEE

Item 96.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 96.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

To remain in compliance with the destruction and removal efficiency (DRE) standard, the facility must establish an operating limit during the comprehensive performance test (or during a previous DRE test under provisions of §63.1206(b)(7)) for the maximum pumpable hazardous waste feedrate, and comply with this limit at all times that hazardous waste remains in the combustion chamber (i.e., the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated).

The facility must establish a limit on the maximum pumpable hazardous waste feedrate for each location where hazardous waste is fed. The facility must establish the limit as the average of the maximum hourly rolling average for each test run.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: VOLUMETRIC FLOW RATE

Upper Permit Limit: 10.5 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 97: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(j)(4), Subpart EEE

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 97.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

To remain in compliance with the destruction and removal efficiency (DRE) standard, the facility must establish an operating limit during the comprehensive performance test (or during a previous DRE test under provisions of §63.1206(b)(7)) for the operation of the waste firing system, and comply with this limit at all times that hazardous waste remains in the combustion chamber (i.e., the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated).

To ensure that good operation of each hazardous waste firing system is maintained, the facility must establish and comply with a limit on the minimum LLGF atomization pressure. The facility must establish a minimum hourly rolling average limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: PRESSURE

Lower Permit Limit: 36 pounds per square inch gauge

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 98: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(k)(1), Subpart EEE

Item 98.1:

The Compliance Certification activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Emission Unit: K-ILNSG
Process: KHF

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

Item 98.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the dioxin/furan emission standard by establishing and complying with a combustion gas temperature limit at the exit of the last combustion chamber (or exit of any waste heat recovery system). The facility must base the limit on operations during the comprehensive performance test.

The facility must establish a limit on the maximum temperature of the gas at the exit of the waste heat recovery system on an hourly rolling average. The limit must be established as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: TEMPERATURE
Upper Permit Limit: 436 degrees Fahrenheit
Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 99: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(k)(2), Subpart EEE

Item 99.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP



Item 99.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the dioxin/furan standard by establishing and complying with a minimum kiln back-end combustion temperature limit. The facility must base the limit on operations during the comprehensive performance test.

The facility must measure the temperature of each combustion chamber at a location that best represents, as practicable, the bulk gas temperature in the combustion zone. The facility must document the temperature measurement location in the test plan submitted under 40 CFR Part 63.1207(e). The facility must establish a minimum hourly rolling average limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 895 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 100: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(k)(3), Subpart EEE

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 100.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:



The facility must comply with the dioxin/furan emission standard by establishing and complying with a maximum production rate limit. The facility must base the limit on operations during the comprehensive performance test.

As an indicator of gas residence time in the control device, the facility must establish and comply with a limit on the maximum shale feedrate, that the facility must document in the site-specific test plan as an appropriate surrogate for gas residence time, as the average of the maximum hourly rolling averages for each test run. The facility must comply with this limit on a hourly rolling average basis.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: MASS FLOW RATE

Upper Permit Limit: 22.8 tons per hour

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 101: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(k)(4), Subpart EEE

Item 101.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 101.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the dioxin/furan emission standard by establishing and complying with a maximum pumbable hazardous waste feedrate limit. The facility must base the limit on operations during the comprehensive performance test.



The facility must establish a limit on the maximum pumpable LLGF hazardous waste feedrate for each location where waste is fed. The facility must establish the limit as the average of the maximum hourly rolling averages for each test run. The facility must comply with the feedrate limit on a hourly rolling average basis.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: VOLUMETRIC FLOW RATE

Upper Permit Limit: 10.5 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 102: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(l)(1)(iv), Subpart EEE

Item 102.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 007439-97-6 MERCURY

Item 102.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must establish and comply with a 12-hour rolling average limit for the total feedrate of mercury in all feedstreams. The limit must be based on the average of the comprehensive performance test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter is not met.

Except as provided by 40 CFR Part 63.1209(l)(1)(iv)(C) - see below - if the facility chooses to establish a mercury feedrate limit



corresponding to a maximum theoretical emission concentration (MTEC) under 40 CFR Part 63.1221(a)(2)(ii), the facility must:

- 1) Comply with the MTEC operating requirement on a 12-hour rolling average;
- 2) Monitor and record the feedrate of mercury for each hazardous waste feedstream according to 40 CFR Part 63.1209(c);
- 3) Monitor with a continuous monitoring system and record in the operating record the gas flowrate (either directly or by monitoring a surrogate parameter that the facility has correlated to gas flowrate);
- 4) Continuously calculate and record in the operating record a MTEC assuming mercury from all hazardous waste feedstreams is emitted;
- 5) Initiate an automatic waste feed cutoff that immediately and automatically cuts off the hazardous waste feed when the MTEC operating requirement is exceeded.

In lieu of complying with 40 CFR Part 63.1209(l)(1)(iv)(B) - above - the facility may identify in the Notification of Compliance a minimum gas flowrate limit and a maximum feedrate limit of mercury from all hazardous waste feedstreams that ensures the MTEC calculated in 40 CFR Part 63.1209(l)(1)(iv)(B)(4) is below the operating requirement under 40 CFR Part 63.1221(a)(2)(ii), and the facility shall initiate an automatic waste feed cutoff that immediately and automatically cuts off the hazardous waste feed when either the gas flowrate or mercury feedrate exceeds the limits identified above.

Parameter Monitored: MASS FLOW RATE

Upper Permit Limit: 0.0141 pounds per hour

Monitoring Frequency: CONTINUOUS

Averaging Method: 12-HOUR ROLLING AVERAGE, CALCULATED EVERY MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 103: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(l)(1)(v), Subpart EEE

Item 103.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 007439-97-6 MERCURY

Item 103.2:

Compliance Certification shall include the following monitoring:



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

Monitoring Description:

The facility may comply with the establishment of a 12-hour rolling average limit for the total feedrate of mercury in all feedstreams by choosing to extrapolate mercury feedrate limits under the following provisions:

1) The facility requests as part of the performance test plan under 40 CFR Part 63.1207(f) to use the mercury feedrates and associated emission rates during the comprehensive performance test to extrapolate to higher allowable feedrate limits.

2) The extrapolation methodology requires review and approval by the Administrator. The review will consider in particular whether:

-performance test metal feedrates are appropriate (i.e., whether feedrates are at least at normal levels; depending on the heterogeneity of the waste, whether some level of spiking would be appropriate; and whether the physical form and species of spiked material is appropriate); and

-whether the extrapolated feedrates requested are warranted considering historical metal feedrate data.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: MASS FLOW RATE

Upper Permit Limit: 0.0141 pounds per hour

Monitoring Frequency: CONTINUOUS

Averaging Method: 12-HOUR ROLLING AVERAGE, CALCULATED EVERY MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 104: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(m)(1)(i)('A'), Subpart

EEE

Item 104.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):



CAS No: 0NY075-00-0 PARTICULATES

Item 104.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the particulate matter emission standard by establishing and complying with the operating parameter limits for high energy wet scrubbers. The facility must base the limits on operations during the comprehensive performance test.

The facility must establish a limit for the minimum pressure drop across the venturi scrubber on an hourly rolling average.

The facility must establish a limit on an hourly rolling average as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: PRESSURE DROP

Lower Permit Limit: 6.1 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 105: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(m)(1)(i)('B'), Subpart

EEE

Item 105.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 105.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



Monitoring Description:

The facility must comply with the particulate matter emission standard by establishing and complying with the operating parameter limits for wet scrubbers. The facility must base the limits on operations during the comprehensive performance test.

The facility must establish during the 2015 comprehensive performance test a minimum scrubber tank volume or liquid level and comply using a CMS.

The facility must establish a limit on an hourly rolling average as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 106: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(m)(1)(i)('B'), Subpart

EEE

Item 106.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

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

Item 106.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the particulate matter emission standard by establishing and complying with the operating parameter limits for wet scrubbers. The facility must base the limits on operations during the comprehensive performance test.

The facility must establish a minimum sump blowdown rate for the venturi scrubber and comply using a CMS.

The facility must establish a limit on an hourly rolling average as the average of the test run averages.



Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: VOLUMETRIC FLOW RATE
Lower Permit Limit: 14.6 gallons per minute
Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 107: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(m)(1)(i)('C'), Subpart

EEE

Item 107.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

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

Item 107.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the particulate matter emission standard by establishing and complying with the operating limits for high energy wet scrubbers. The facility must base the limits on operations during the comprehensive performance test.

The facility must establish a limit on the maximum flue gas flowrate on an hourly rolling average.

The facility must establish a maximum hourly rolling average limit as the average of the test run averages.

The limit is listed below is on a wet basis.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below



is not met.

Parameter Monitored: VOLUMETRIC FLOW RATE

Upper Permit Limit: 45625 cubic feet per minute (standard conditions)

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 108: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(m)(1)(i)('C'), Subpart
EEE

Item 108.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 108.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the particulate matter emission standard by establishing and complying with the operating limits for high energy wet scrubbers. The facility must base the limits on operations during the comprehensive performance test.

The facility must establish a limit on the minimum venturi scrubber water recycle flowrate on an hourly rolling average.

The facility must establish a minimum hourly rolling average limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: VOLUMETRIC FLOW RATE

Upper Permit Limit: 174.7 gallons per minute

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 109: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(n)(1), Subpart EEE

Item 109.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 007439-92-1 LEAD
CAS No: 007440-38-2 ARSENIC
CAS No: 007440-41-7 BERYLLIUM
CAS No: 007440-47-3 CHROMIUM
CAS No: 007440-43-9 CADMIUM

Item 109.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the semivolatile metal (cadmium and lead) and low volatile metal (arsenic, beryllium, and chromium) emission standards by establishing and complying with a maximum inlet temperature limit to the primary dry metals emissions control device and base the limit on operations during the comprehensive performance test.

The facility must establish a limit on the maximum inlet temperature to the baghouse on an hourly rolling average basis.

The facility must establish the limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: TEMPERATURE
Upper Permit Limit: 400 degrees Fahrenheit

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 110: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(n)(2)(iv), Subpart EEE

Item 110.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 007439-92-1 LEAD
CAS No: 007440-43-9 CADMIUM

Item 110.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the semi-volatile metal (cadmium and lead) emission standard by establishing and complying with a feedrate limit for semi-volatile metals and base the limit on operations during the comprehensive performance test.

The facility must establish a combined feedrate limit for cadmium and lead on a 12-hour rolling average basis.

The facility must establish the limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: MASS FLOW RATE
Upper Permit Limit: 8.52 pounds per hour
Monitoring Frequency: CONTINUOUS
Averaging Method: 12-HOUR ROLLING AVERAGE, CALCULATED EVERY MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



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

Condition 111: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(n)(2)(iv), Subpart EEE

Item 111.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 007440-41-7 BERYLLIUM

CAS No: 007440-47-3 CHROMIUM

CAS No: 007440-38-2 ARSENIC

Item 111.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the low volatile metal (arsenic, beryllium, and chromium) emission standard by establishing and complying with a feedrate limit for low volatile metals and base the limit on operations during the comprehensive performance test.

The facility must establish a combined feedrate limit for arsenic, beryllium and chromium on a 12-hour rolling average basis.

The facility must establish the limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: MASS FLOW RATE

Upper Permit Limit: 8.4 pounds per hour

Monitoring Frequency: CONTINUOUS

Averaging Method: 12-HOUR ROLLING AVERAGE, CALCULATED EVERY MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 112: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020



Applicable Federal Requirement: 40CFR 63.1209(n)(2)(iv), Subpart EEE

Item 112.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 007439-92-1 LEAD
CAS No: 007440-43-9 CADMIUM

Item 112.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the semi-volatile metal (cadmium and lead) emission standard by establishing and complying with a feedrate limit for semi-volatile metals as the thermal concentration of semi-volatile metals in all hazardous waste feedstreams and base the limit on operations during the comprehensive performance test.

The facility must establish a combined feedrate limit for cadmium and lead on a 12-hour rolling average basis. The facility must calculate hazardous waste thermal concentrations for semi-volatile metals for each run as the total mass feedrate of semi-volatile metals for all hazardous waste feedstreams divided by the total heat input rate for all hazardous waste feedstreams.

The facility must establish the limit as the average of the test run averages, calculated on a thermal concentration basis, for all hazardous waste feeds.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: MASS FLOW RATE
Upper Permit Limit: 8.52 pounds per hour
Monitoring Frequency: CONTINUOUS
Averaging Method: 12-HOUR ROLLING AVERAGE, CALCULATED EVERY MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 113: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020



Applicable Federal Requirement:40CFR 63.1209(n)(2)(iv), Subpart EEE

Item 113.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 007440-41-7 BERYLLIUM

CAS No: 007440-47-3 CHROMIUM

CAS No: 007440-38-2 ARSENIC

Item 113.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the low volatile metal (arsenic, beryllium, and chromium) emission standard by establishing and complying with a feedrate limit for low volatile metals as the thermal concentration of low volatile metals in all hazardous waste feedstreams and base the limit on operations during the comprehensive performance test.

The facility must establish a combined feedrate limit for arsenic, beryllium and chromium on a 12-hour rolling average basis. The facility must calculate hazardous waste thermal concentrations for low volatile metals for each run as the total mass feedrate of low volatile metals for all hazardous waste feedstreams divided by the total heat input rate for all hazardous waste feedstreams.

The facility must establish the limit as the average of the test run averages, calculated on a thermal concentration basis, for all hazardous waste feeds.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: MASS FLOW RATE

Upper Permit Limit: 8.4 pounds per hour

Monitoring Frequency: CONTINUOUS

Averaging Method: 12-HOUR ROLLING AVERAGE, CALCULATED EVERY MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 114: Compliance Certification



Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(n)(2)(vii), Subpart EEE

Item 114.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Item 114.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In lieu of establishing feedrate limits as specified in 40 CFR 63.1209(n)(2)(ii) through (vi), the facility may request as part of the performance test plan under 40 CFR 63.7(b) and (c) and 40 CFR 63.1207(e) and (f) to use the semivolatile metal and low volatile metal feedrates and associated emission rates during the comprehensive performance test to extrapolate to higher allowable feedrate limits and emission rates. The extrapolation methodology will be reviewed and approved, as warranted, by the Administrator. The review will consider in particular, whether:

A) Performance test metal feedrates are appropriate (i.e., whether feedrates are at least at normal levels; depending on the heterogeneity of the waste, whether some level of spiking would be appropriate; and whether the physical form and species of spiked material is appropriate); and

B) Whether the extrapolated feedrates the facility request are warranted considering historical metal feedrate data.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 115: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(n)(5), Subpart EEE

Item 115.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):

CAS No: 007439-92-1 LEAD

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



CAS No: 007440-38-2	ARSENIC
CAS No: 007440-41-7	BERYLLIUM
CAS No: 007440-47-3	CHROMIUM
CAS No: 007440-43-9	CADMIUM

Item 115.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the semivolatile metal (cadmium and lead) and low volatile metal (arsenic, beryllium, and chromium) emission standards by establishing and complying with a maximum flue gas flowrate and base the limit on operations during the comprehensive performance test.

The facility must establish a limit on the maximum flue gas flowrate on an hourly rolling average basis.

The facility must establish the limit as the average of the test run averages.

The limit is listed below is on a wet basis.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: VOLUMETRIC FLOW RATE

Upper Permit Limit: 45625 cubic feet per minute (standard conditions)

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 116: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(o)(1), Subpart EEE

Item 116.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Regulated Contaminant(s):
CAS No: 007782-50-5 CHLORINE

Item 116.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with a total chlorine and chloride feedrate and base the limit on operations during the comprehensive performance test.

The facility must establish a limit on the total chlorine (organic and inorganic) feedrate on a 12-hour rolling average basis.

The facility must establish the limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: MASS FLOW RATE

Upper Permit Limit: 119.2 pounds per hour

Monitoring Frequency: CONTINUOUS

Averaging Method: 12-HOUR ROLLING AVERAGE, CALCULATED EVERY MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 117: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(o)(2), Subpart EEE

Item 117.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 117.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE



PARAMETERS AS SURROGATE

Monitoring Description:

The facility must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with a maximum flue gas flowrate and base the limit on operations during the comprehensive performance test.

The facility must establish a limit on the maximum flue gas flowrate on an hourly rolling average basis.

The facility must establish the limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: VOLUMETRIC FLOW RATE

Upper Permit Limit: 45625 cubic feet per minute (standard conditions)

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 118: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(o)(3)(i), Subpart EEE

Item 118.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 118.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with a minimum pressure drop and base the limit on operations during the comprehensive performance test.



The facility must establish a limit on the minimum pressure drop across the venturi scrubber on a hourly rolling average basis.

The facility must establish the limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: PRESSURE DROP

Lower Permit Limit: 6.1 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 119: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(o)(3)(iv), Subpart EEE

Item 119.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 119.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with a minimum recirculation tank pH and base the limit on operations during the comprehensive performance test.

The facility must establish a limit on the minimum recirculation tank pH on an hourly rolling average basis.

The facility must establish the limit as the average of the test run averages.

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: PH

Lower Permit Limit: 8.0 pH (STANDARD) units

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 120: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(o)(4)(i), Subpart EEE

Item 120.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 120.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with a minimum sorbent feedrate limit and base the limit on operations during the comprehensive performance test.

The facility must establish a limit on the minimum lime injection feedrate prior to the baghouse on an hourly rolling average basis.

The facility must establish the limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: LIME INJECTION FEED RATE

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Permit ID: 4-0103-00016/00048

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Lower Permit Limit: 250 pounds per hour
Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 121: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(o)(4)(ii), Subpart EEE

Item 121.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 121.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with a minimum carrier fluid flowrate limit and base the limit on operations during the comprehensive performance test.

The facility must establish a limit on the minimum sorbent carrier fluid flowrate prior to the baghouse on an hourly rolling average basis.

The facility must establish the limit as the average of the test run averages.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: VOLUMETRIC FLOW RATE

Lower Permit Limit: 152 cubic feet per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 122: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(o)(4)(iii), Subpart EEE

Item 122.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 122.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the hazardous waste combustor is equipped with a dry scrubber, then the facility shall specify and use the brand (i.e., manufacturer) and type of sorbent used during the comprehensive performance test until a subsequent comprehensive performance test is conducted, unless the facility documents in the site-specific performance test plan required under 40 CFR 63.1207(e) and (f) key parameters that affect adsorption and establish limits on those parameters based on the sorbent used in the performance test.

The facility may substitute at any time a different brand or type of sorbent provided that the replacement has equivalent or improved properties compared to the sorbent used in the performance test and conforms to the key sorbent parameters identified above. The facility must record in the operating record documentation that the substitute sorbent will provide the same level of control as the original sorbent.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 123: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(p), Subpart EEE

Item 123.1:

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Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 123.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Combustion system leaks of hazardous air pollutants must be controlled by maintaining the maximum kiln draft pressure (front end) less than or equal to the pressure limit using an instantaneous monitor at the discharge end seal hood assembly and engaging the automatic waste feed cut-off when the pressure limit is not adequately maintained allowing for only a 3 second delay.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: PRESSURE

Upper Permit Limit: -0.05 inches of water

Monitoring Frequency: CONTINUOUS

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 124: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1209(p), Subpart EEE

Item 124.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 124.2:

Compliance Certification shall include the following monitoring:



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

Monitoring Description:

Combustion system leaks of hazardous air pollutants must be controlled by maintaining the maximum kiln draft pressure (front end) less than or equal to the pressure limit using an instantaneous monitor at the discharge end seal hood assembly and engaging the automatic waste feed cut-off when the pressure limit is not adequately maintained allowing for only a 1 second delay.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: PRESSURE

Upper Permit Limit: 0.00 inches of water

Monitoring Frequency: CONTINUOUS

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 125: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(p), Subpart EEE

Item 125.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 125.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Combustion system leaks of hazardous air pollutants must be controlled by maintaining the maximum interstitial pressure (back end) on an hourly rolling average basis less than or equal to the pressure limit using an instantaneous monitor within the interstitial space of the rear double seal hood assembly of the kiln and engaging the automatic waste feed cut-off when the pressure limit is not adequately



maintained.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: PRESSURE
Upper Permit Limit: -0.08 inches of water
Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 126: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(p), Subpart EEE

Item 126.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 126.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Combustion system leaks of hazardous air pollutants must be controlled by maintaining simultaneously the maximum kiln draft pressure (front end) and the maximum interstitial pressure (back end) less than or equal to the pressure limit using an instantaneous monitor at the discharge end seal hood assembly of the kiln and within the interstitial space of the rear double seal hood assembly of the kiln and engaging the automatic waste feed cut-off when the pressure limit is not adequately maintained.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameters are not met.

Parameter Monitored: PRESSURE
Upper Permit Limit: 0.00 inches of water

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Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Monitoring Frequency: CONTINUOUS
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME
(INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 127: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.1209(p), Subpart EEE

Item 127.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 127.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Combustion system leaks of hazardous air pollutants must be controlled by maintaining the maximum interstitial pressure (back end) less than or equal to the pressure limit using an instantaneous monitor within the interstitial space of the rear double seal hood assembly of the kiln and engaging the automatic waste feed cut-off when the pressure limit is not adequately maintained allowing for only a 1 second delay.

Data from the continuous monitoring system shall be sent to the automatic waste feed cut-off and feed to the incinerators shall be immediately terminated if the limit on the monitored parameter below is not met.

Parameter Monitored: PRESSURE
Upper Permit Limit: 0.00 inches of water
Monitoring Frequency: CONTINUOUS
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME
(INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 128: Compliance Certification



Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1210, Subpart EEE

Item 128.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Item 128.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The Notification of Compliance status requirements of Sec. 63.9(h) apply , except that:

- (i) The notification is a Notification of Compliance (NOC), rather than compliance status;
- (ii) The notification is required for the initial comprehensive performance test and each subsequent comprehensive and confirmatory performance test; and
- (iii) You must postmark the notification before the close of business on the 90th day following completion of relevant compliance demonstration activity specified in this subpart rather than the 60th day as required by 63.9(h)(2)(ii).

Upon postmark and submission of the NOC, the operating parameter limits identified in the NOC, as applicable, shall be complied with. The limits identified in the Documentation of Compliance (DOC) or a previous NOC are no longer applicable.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 129: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1221(a)(5)(i), Subpart EEE

Item 129.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG
Process: KHF

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 129.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility must not emit carbon monoxide (CO) in excess of 100 parts per million by volume (ppmv) on an hourly rolling average. Compliance requires continuous emissions monitoring (CEMS) of CO on a dry basis and corrected to 7% oxygen.

The facility must also document during the comprehensive performance test that the destruction and removal efficiency (DRE) test runs show hydrocarbons do not exceed 20 ppmv (dry, corrected to 7% O₂ and reported as propane) over an hourly rolling average (monitored continuously with a CEMS).

Comprehensive performance testing must be done in accordance with the test protocol approved by the Department.

Manufacturer Name/Model Number: Siemens/Utramat/Oxymat6

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 100 parts per million by volume (dry, corrected to 7% O₂)

Reference Test Method: CO CEMS

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 130: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1221(c)(1), Subpart EEE

Item 130.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Process: KHF

Regulated Contaminant(s):

CAS No: 000108-90-7 CHLOROBENZENE

Item 130.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Compliance with the required destruction and removal efficiency (DRE) of 99.99% for the designated principle organic hazardous constituent (POHC) must be demonstrated during the comprehensive performance test. The POHC for this facility is monochlorobenzene (MCB). The DRE must be calculated using the



formula:

$$DRE=[1-(W_{out}/W_{in})] \times 100\%$$

Where:

Win=mass feed rate of one POHC in a waste feed stream; and

Wout=mass emission rate of the same POHC present in the exhaust emissions prior to release to the atmosphere.

The facility must document compliance with the DRE standard under subpart EEE only once provided that the facility does not modify the source after the DRE test in a manner that could affect the ability of the source to achieve the DRE standard.

The facility may use any DRE test data that documents that the source achieves the required level of DRE provided no modification of the design or operation of the source has occurred that could affect the ability of the source to achieve the DRE standard since the DRE test was performed and the DRE test data meets quality assurance objectives determined on a site-specific basis.

If the facility feeds hazardous waste at a location in the combustion system other than the normal flame zone, the facility must demonstrate compliance with the DRE standard during each comprehensive performance test.

Parameter Monitored: CHLOROBENZENE

Upper Permit Limit: 99.99 percent

Reference Test Method: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 131: Significant figures

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.1221(d), Subpart EEE

Item 131.1:

This Condition applies to Emission Unit: K-ILNSG
Process: KHF

Item 131.2:

The emission limits provided by 40 CFR 63.1221(a) and (b) are presented with two significant figures. Although the owner or operator must perform intermediate calculations using at least three significant figures, he/she may round the resultant emission levels to two significant figures to document compliance.

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Permit ID: 4-0103-00016/00048

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Condition 132: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 212.4 (a)

Item 132.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG Emission Point: 00001

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

Item 132.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

SO2 stack emissions from kiln # 1 shall not exceed 30 pounds per hour.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 30 pounds per hour

Reference Test Method: 40 CFR 60

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: MONTHLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 3/1/2016.

Subsequent reports are due every 1 calendar month(s).

Condition 133: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:6 NYCRR 212.10 (c)

Item 133.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG Emission Point: 00001

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

Item 133.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This emission point shall not discharge emissions that contain oxides

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Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



of nitrogen in excess of 61 pounds per hour.

Upper Permit Limit: 61 pounds per hour

Reference Test Method: 40 CFR 60

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 134: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 6 NYCRR 225-2.4 (a) (2)

Item 134.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 012672-29-6 POLYCHLORINATED BIPHENYLS (48%CL)

Item 134.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Waste fed to the incinerator must contain less than 50 ppm
polychlorinated biphenyls (PCB).

Parameter Monitored: POLYCHLORINATED BIPHENYL

Upper Permit Limit: 50 parts per million by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 135: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 135.1:

The Compliance Certification activity will be performed for:

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Emission Unit: K-ILNSG

Emission Point: 00002

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 135.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

SO2 stack emissions from kiln # 2 shall not exceed 30 pounds per hour.

Manufacturer Name/Model Number: na

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 30 pounds per hour

Reference Test Method: 40 CFR 60

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: MONTHLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 3/1/2016.

Subsequent reports are due every 1 calendar month(s).

Condition 136: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 6 NYCRR 212.10 (c)

Item 136.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Emission Point: 00002

Regulated Contaminant(s):

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

Item 136.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This emission point shall not discharge emissions that contain oxides of nitrogen in excess of 61 pounds per hour.

Upper Permit Limit: 61 pounds per hour

Reference Test Method: 40 CFR 60

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 137: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 6 NYCRR 225-2.4 (a) (2)

Item 137.1:

The Compliance Certification activity will be performed for:

Emission Unit: K-ILNSG

Emission Point: 00002

Regulated Contaminant(s):

CAS No: 012672-29-6

POLYCHLORINATED BIPHENYLS (48% CL)

Item 137.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Waste fed to the incinerator must contain less than 50 ppm
polychlorinated biphenyls (PCB).

Parameter Monitored: POLYCHLORINATED BIPHENYL

Upper Permit Limit: 50 parts per million by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 138: General standards - identification of equipment
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.162(c), Subpart H

Item 138.1:

This Condition applies to:

Emission Unit: STANKS

Item 138.1:

This Condition applies to Emission Unit: M-ISCES

Item 138.2.3:

Each piece of equipment to which Subpart H applies shall be identified such that it can be



distinguished readily from equipment that is not subject to Subpart H. This does not require physical tagging, but may be identified on a plant site plan, log entries, or by designation of process unit boundaries by some form of weatherproof identification.

Condition 139: General standards - Detection of leaks in pumps, connectors, closed vent systems and control devices, agitators, and compressors
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.162(f), Subpart H

Item 139.1:

This Condition applies to:

Emission Unit: STANKS

Item 139.1:

This Condition applies to Emission Unit: M-ISCES

Item 139.2.3:

When a leak is detected as specified in 40CFR63.163, 164, 169, 172, 173, and 174, a weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. The identification which has been placed on equipment determined to have a leak, except for a connector that is subject to the provisions of 40CFR63.174(c)(1)(i), may be removed after it is repaired.

Condition 140: General standards - detection of leaks in valves
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.162(f), Subpart H

Item 140.1:

This Condition applies to:

Emission Unit: STANKS

Item 140.1:

This Condition applies to Emission Unit: M-ISCES

Item 140.2.3:

When each leak is detected as specified in 40CFR63.168 and 169, a weatherproof and readily visible identification, marked with the equipment number, shall be attached to the leaking equipment. The identification on a valve may be removed after it has been monitored as specified in 40CFR63.168(f)(3), and 63.175(e)(7)(i)(D), and no leak has been detected during the follow-up monitoring.

Condition 141: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020



Applicable Federal Requirement:40CFR 63.163(b)(2), Subpart H

Item 141.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 141.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The owner/operator shall monitor each pump in light liquid service monthly to detect leaks by the method specified in 40CFR63.180(b). The instrument reading that defines a leak is 1,000 ppm or greater.

When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40CFR63.171. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. First attempts include, but are not limited to, tightening of packing gland nuts, and ensuring that the seal flush is operating at design pressure and temperature.

Repair is not required unless an instrument reading of 2,000 ppm or greater is detected.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: VOC's

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 1000 parts per million (by volume)

Reference Test Method: 40CFR63.180(b)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 142: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.163(b)(3), Subpart H

Item 142.1:

The Compliance Certification activity will be performed for:



Emission Unit: M-ISCES

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 142.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, that shall constitute a leak.

When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40CFR63.171. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. First attempts include, but are not limited to, tightening of packing gland nuts, and ensuring that the seal flush is operating at design pressure and temperature.

Reference Test Method: visual

Monitoring Frequency: WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

**Condition 143: Pumps in light liquid service - percent leaking pumps calculation
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.163(d), Subpart H

Item 143.1:

This Condition applies to Emission Unit: M-ISCES

Item 143.2:

Pursuant to 40 CFR 63.163(d)(4), percent leaking pumps shall be calculated using the following equation:

$$\%P_L = ((P_L - P_S) / (P_T - P_S)) \times 100$$

where:

$\%P_L$ = percent leaking pumps

P_L = Number of pumps found leaking as determined through monthly monitoring

P_T = Total pumps in organic HAP service, including those meeting the criteria in 40 CFR 63.163(e) & (f)

P_S = Number of pumps leaking within 1 month of startup during the current monitoring period



Pursuant to 40 CFR 63.163(d)(2) if, calculated on a 6-month rolling average, the greater of 10 percent of the pumps in a process unit or three pumps in a process unit leak, the owner or operator shall implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176.

Pursuant to 40 CFR 63.163(d)(1), the owner or operator shall determine no later than the first monitoring period whether to calculate percent leaking pumps on a process unit basis or on a source-wide basis. Once this has been decided, all subsequent percent calculations shall be made on the same basis.

Pursuant to 40 CFR 63.163(d)(3), the number of pumps at a process unit shall be the sum of all the pumps in organic HAP service, except that pumps found leaking in continuous process until within 1 month after start-up of the pump shall not count in the percent leaking pumps calculation for that one monitoring period only.

Condition 144: Open-ended valves or lines standards
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.167(a), Subpart H

Item 144.1:

This Condition applies to Emission Unit: M-ISCES

Item 144.2:

(1) Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in § 63.162(b) of this subpart and paragraphs (d) and (e) of this section.

(2) The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair.

Condition 145: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.167(b), Subpart H

Item 145.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 145.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

**Condition 146: Standards for open-ended valves with double block and bleed system
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.167(c), Subpart H

Item 146.1:

This Condition applies to Emission Unit: M-ISCES

Item 146.2:

When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with §63.167(a) at all other times.

**Condition 147: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.168, Subpart H

Item 147.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 147.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owner/operator shall monitor all valves in gas/vapor service and light liquid service using the method specified in 40CFR63.180(b). All existing process units are in Phase III of the standard. New sources subject to Subpart F or I must comply with Phase II requirements upon initial start-up. They must comply with Phase III requirements beginning no later than 1 year after initial start-up.



In Phases II and III, an instrument reading of 500 ppm or greater indicates a leak. In Phase II for new sources, each valve shall be monitored quarterly. In Phase III, the owner/operator shall monitor valves at the following intervals:

- 1) At process units with 2 percent or greater leaking valves, owner/operator shall monitor each valve once per month.
- 2) At process units with less than 2 percent leaking valves, owner/operator shall monitor each valve once per quarter.
- 3) At process units with less than 1 percent leaking valves, owner/operator shall monitor each valve once every 2 quarters.
- 4) At process units with less than 0.5 percent leaking valves, owner/operator shall monitor each valve once every 4 quarters.

Percent leaking valves shall be calculated as follows:

$$\%VI = (VI/(Vt+Vc))*100$$

where:

%VI = percent leaking valves as determined through periodic monitoring

VI = number of valves found leaking excluding nonrepairables as provided in 40CFR63.168(e)(3)(i)

Vt = total valves monitored, in a monitoring period excluding valves monitored as required by 63.168(f)(3)

Vc = optional credit for removed valves = 0.67 x net number (total removed - total added) of valves in organic HAP service removed from process unit after the compliance date.

The percent leaking valves shall be calculated as a two-month rolling average for monthly, quarterly, or semiannual monitoring programs. The percent leaking valves shall be calculated as an average of any three of four consecutive monitoring periods for annual monitoring programs.

Nonrepairable valves shall be included in the calculation of percent leaking valves the first time the valve is identified as leaking and nonrepairable. Otherwise, a number of nonrepairable valves (identified and included in the percent leaking calculation in a previous period) up to a maximum of 1 percent of the total number of valves in organic HAP service at a process unit may be excluded from calculation of percent leaking valves. If the number exceeds 1 percent nonrepairable, then the number exceeding 1 percent shall be counted.

Reference Test Method: 40 CFR 63.180(b)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION



Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 148: Valves in gas/vapor service and light liquid service - repair of leaks Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.168(f), Subpart H

Item 148.1:

This Condition applies to Emission Unit: M-ISCES

Item 148.2:

When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in §63.171 of this subpart. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. When a leak has been repaired, the valve shall be monitored at least once within the first 3 months after its repair.

(i) The monitoring shall be conducted as specified in §63.180 (b) and (c), as appropriate, to determine whether the valve has resumed leaking.

(ii) Periodic monitoring required by paragraphs (b) through (d) of section 63.168 may be used to satisfy this paragraph post-repair monitoring, if the timing of the monitoring period coincides falls within the 3 months allotted. Alternatively, other monitoring may be performed to satisfy this requirement, regardless of whether the timing of the monitoring period for periodic monitoring falls within the 3 months.

(iii) If a leak is detected by post-repair monitoring, the owner or operator shall follow the provisions of (iii)(A) and (iii)(B) of this condition, to determine whether that valve must be counted as a leaking valve for purposes of § 63.168(e) of this subpart.

(A) If the owner or operator elected to use periodic monitoring required by paragraphs (b) through (d) of section 63.168 to satisfy the post-repair monitoring requirements of this section, then the valve shall be counted as a leaking valve.

(B) If the owner or operator elected to use other monitoring, prior to the periodic monitoring required by paragraphs (b) through (d) of this section, to satisfy the post-repair requirements above, then the valve shall be counted as a leaking valve unless it is repaired and shown by periodic monitoring not to be leaking.

Per §63.168(g), first attempts at repair include, but are not limited to, the following practices where practicable:

(1) Tightening of bonnet bolts,



- (2) Replacement of bonnet bolts,
- (3) Tightening of packing gland nuts, and
- (4) Injection of lubricant into lubricated packing.

Condition 149: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.169, Subpart H

Item 149.1:

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

Emission Unit: M-ISCES

Emission Unit: S-TANKS

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 149.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Pumps, valves, connectors, and agitators in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and instrumentation systems shall be monitored within 5 calendar days by the method specified in 40CFR63.180(b) if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.

If such a potential leak is repaired as described below, it is not necessary to monitor the system for leaks by the method specified in §63.180(b).

If an instrument reading of 10,000 ppm or greater for agitators, 5,000 ppm or greater for pumps handling polymerizing monomers, 2,000 ppm or greater for all other pumps, or 500 ppm or greater for valves, connectors, instrumentation systems, and pressure relief devices is measured, a leak is detected.

When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after detection. The first attempt at repair shall be made no later than 5 calendar days after detection and shall include the practices listed in 40CFR63.163(c)(2) for pumps and 40CFR63.168(g) for valves.

In order to be exempt from the post-repair monitoring requirement in this condition, repaired shall mean that the visual, audible, olfactory, or other indications of a leak have been eliminated; that no bubbles are observed at potential leak sites during a leak check using soap solution; or that the system will hold a test pressure.



Reference Test Method: 40 CFR 63.180(b)
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE
MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 150: Delay of repair - general
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.171(a), Subpart H

Item 150.1:

This Condition applies to:

Emission Unit: STANKS

Item 150.1:

This Condition applies to Emission Unit: M-ISCES

Item 150.2.3:

Delay of repair of equipment for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur by the end of the next process unit shutdown.

Condition 151: Delay of repair for isolated equipment
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.171(b), Subpart H

Item 151.1:

This Condition applies to:

Emission Unit: STANKS

Item 151.1:

This Condition applies to Emission Unit: M-ISCES

Item 151.2.3:

Delay of repair of equipment for which leaks have been detected is allowed for equipment that is isolated from the process and that does not remain in organic HAP service.

Condition 152: Delay of repair - valves, connectors, and agitators
Effective between the dates of 01/01/2016 and 12/31/2020



Applicable Federal Requirement:40CFR 63.171(c), Subpart H

Item 152.1:

This Condition applies to:

Emission Unit: STANKS

Item 152.1:

This Condition applies to Emission Unit: M-ISCES

Item 152.2.3:

Delay of repair is allowed for valves, connectors, and agitators if it is determined that emissions of purged material resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair, and when repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with 40CFR63.172.

Condition 153: Delay of repair - pumps

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.171(d), Subpart H

Item 153.1:

This Condition applies to:

Emission Unit: STANKS

Item 153.1:

This Condition applies to Emission Unit: M-ISCES

Item 153.2.3:

Delay of repair is allowed for pumps if repair requires replacing the existing seal design with a new system that has been determined under the provisions of 40CFR63.176(d) will provide better performance or:

- 1) A dual mechanical seal system that meets the requirements of 40CFR63.163(e), or
- 2) A pump that meets the requirements of 40CFR63.163(f), or
- 3) A closed-vent system and control device that meets the requirements of 40CFR63.163(g); and

repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

Condition 154: Delay of repair beyond process unit shutdown

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.171(e), Subpart H



Item 154.1:

This Condition applies to:

Emission Unit: STANKS

Item 154.1:

This Condition applies to Emission Unit: M-ISCES

Item 154.2.3:

Delay of repair beyond a process unit shutdown will be allowed for a valve if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the second process unit shutdown will not be allowed unless the third process unit shutdown occurs sooner than 6 months after the first process unit shutdown.

Condition 155: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.172(b), Subpart H

Item 155.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 155.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Recovery or recapture devices shall be designed and operated to recover the organic HAP emissions or VOC emissions vented to them with an efficiency of 95% or greater, or to an exit concentration of 20 ppmv, whichever is less stringent.

Parameter Monitored: TOTAL HAP

Lower Permit Limit: 95 percent reduction by weight

Reference Test Method: 18

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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



Condition 156: Standards for control devices used to comply with Subpart H Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.172(e), Subpart H

Item 156.1:

This Condition applies to Emission Unit: M-ISCES

Item 156.2:

The owner/operator shall monitor the control device(s) to ensure that they are operated and maintained in conformance with their design.

Condition 157: Compliance Certification Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.172(f), Subpart H

Item 157.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 157.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Each closed-vent system shall be inspected according to the following schedule:

- If the closed-vent system is constructed of hard-piping, the owner/operator shall conduct an initial inspection using the procedures listed in §63.180(b) [EPA Method 21] and then conduct annual visual inspections for visible, audible, or olfactory evidence of leaks.

- If the closed-vent system is constructed of ductwork, the owner/operator shall conduct an initial inspection using the procedures listed in §63.180(b) [EPA Method 21] and then conduct annual inspections using the same procedures as the initial inspection.

Leaks are indicated by an instrument reading greater than 500 ppm above background or by visual inspections. Leaks shall be repaired as soon as practical, with a first attempt at repair being made no later than five business days after the leak is detected and the repair shall be completed within 15 calendar days after the leak is detected. Delay of repair is allowed if the repair is technically infeasible without a

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process unit shutdown or if the owner/operator determines that the emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair to the leak shall then be complete by the end of the next unit shutdown.

Parameter Monitored: TOTAL HAP

Upper Permit Limit: 500 parts per million (by volume)

Reference Test Method: EPA Method 21

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME

(INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 158: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.173(a)(1), Subpart H

Item 158.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 158.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Non dual seal agitators in gas/vapor service and light liquid service must be checked monthly with a monitor (using the 40 CFR 63 H 180(b) method). A leak is 10,000 ppm (per 40 CFR 63 H 173(a)(2)). Repairs must be made within 5/15 days: 5 days for 1st attempt, 15 days for final repair (per 40 CFR 63 H 173(c)).

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 159: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.173(b)(1), Subpart H

Item 159.1:



The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 159.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Non dual seal agitators is gas/vapor service and light liquid service must be visually checked weekly for leaks.

Monitoring Frequency: WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 160: Containers with a capacity greater than 26.4 gallons and less than or equal to 121.52 gallons

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.688(b)(1), Subpart DD

Item 160.1:

This Condition applies to Emission Unit: M-ISCES

Item 160.2:

The owner or operator of a container having a design capacity greater than 26.4 gallons and less than or equal to 121.52 gallons must control air emissions from the container in accordance with the requirements in either (1) or (2) below, except that 40 CFR 63.922(d)(4) and (5) and 63.923(d)(4) and (5) shall not apply for the purposes of subpart DD.

(1) The owner or operator shall control air emissions from the container by following the provisions listed in 40 CFR 63.922 of Subpart PP for Container Level 1 controls.

A container using Container Level 1 controls is one of the following:

(i) A container that meets the applicable U.S. DOT regulations on packaging hazardous materials for transportation as specified in 40 CFR 63.922(f).

(ii) A container equipped with a cover and closure devices that form a continuous barrier over the container openings such that when the cover and closure devices are secured in the closed position there are no visible holes, gaps, or other open spaces into the interior of the container. The cover may be a separate cover installed on the container or an integral part of the container structural design.



(iii) An open-top container in which an organic vapor-suppressing barrier (ie. an organic vapor-suppressing foam) is placed on or over the regulated material in the container such that no regulated material is exposed to the atmosphere.

Standards covering the composition of covers and closure devices are listed in 40 CFR 63.922(c) and the provisions concerning the proper situations when a closure device may be opened are listed in 40 CFR 63.922(d).

The owner/operator shall inspect containers using Container Level 1 controls according to the provisions listed in 40 CFR 63.926(a).

(2) Compliance with this provision may be satisfied by complying with the provisions in 40CFR63, Subpart PP for Level 2 or Level 3 controls.

**Condition 161: Containers with a capacity greater than 121.52 gallons not in light-material service
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable Federal Requirement:40CFR 63.688(b)(2), Subpart DD

Item 161.1:

This Condition applies to Emission Unit: M-ISCES

Item 161.2:

The owner or operator of a container having a design capacity greater than 121.52 gallons not in light-material service as defined in 40 CFR 63.681 must control air emissions from the container in accordance with the requirements in either (1) or (2) below.

(1) The owner or operator shall control air emissions from the container by following the provisions listed in 40 CFR 63.922 of Subpart PP for Container Level 1 controls.

A container using Container Level 1 controls is one of the following:

(i) A container that meets the applicable U.S. DOT regulations on packaging hazardous materials for transportation as specified in 40 CFR 63.922(f).

(ii) A container equipped with a cover and closure devices that form a continuous barrier over the container openings such that when the cover and closure devices are secured in the closed position there are no visible holes, gaps, or other open spaces into the interior of the container. The cover may be a separate cover installed on the container or an integral part of the container structural design.

(iii) An open-top container in which an organic vapor-suppressing barrier (ie. an organic vapor-suppressing foam) is placed on or over the regulated material in the container such that no regulated material is exposed to the atmosphere.

Standards covering the composition of covers and closure devices are listed in 40 CFR 63.922(c) and the provisions concerning the proper situations when a closure device may be opened are listed in 40 CFR 63.922(d).



Condition 163: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.689(c), Subpart DD

Item 163.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 163.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each transfer system that is subject to 40CFR63, Subpart DD for Off-Site Waste and Recovery Operations, the facility shall control air emissions by using one of the transfer systems listed in §63.689(c)(1)-(3).

If the facility elects to use a transfer system that consists of continuous hard-piping, all joints or seams between the pipe sections shall be permanently or semi-permanently sealed (e.g., a welded joint between two sections of metal pipe or a bolted and gasketed flange.)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 164: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.693(b)(3), Subpart DD

Item 164.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Item 164.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:



Whenever gases or vapors containing HAP are routed from a tank through a closed-vent system connected to a control device used to comply with the requirements of 40 CFR 63.685(b)(1), (2), or (3), the control device must be operating except as provided for in paragraphs (i) and (ii).

(i) The control device may only be bypassed for the purpose of performing planned routine maintenance of the closed-vent system or control device in situations when the routine maintenance cannot be performed during periods that tank emissions are vented to the control device.

(ii) On an annual basis, the total time that the closed-vent system or control device is bypassed to perform routine maintenance shall not exceed 240 hours per each calendar year.

Parameter Monitored: HOURS OF OPERATION

Upper Permit Limit: 240 hours

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL TOTAL

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 165: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.693(c)(1)(i), Subpart DD

Item 165.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Item 165.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The vent stream required to be controlled shall be conveyed to the control device by the following closed-vent system:

A closed-vent system that is designed to operate with no detectable organic emissions using the procedure specified in 40 CFR 63.694(k)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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



Condition 166: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.693(d), Subpart DD

Item 166.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 166.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The carbon adsorption system must achieve one of the performance specifications below:

- 1) Recover 95% or more, on a weight-basis of the total organic compounds (TOC), less methane and ethane, contained in the vent stream entering the carbon adsorption system; or
- 2) Recover 95% or more, on a weight-basis, of the total HAP listed in Table 1 of Subpart DD contained in the vent stream entering the carbon adsorption system.

Parameter Monitored: TOTAL HAP

Lower Permit Limit: 95 percent reduction by weight

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 167: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.693(d)(2)(i), Subpart DD

Item 167.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Item 167.2:

Compliance Certification shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must demonstrate that the carbon adsorption system achieves the performance requirements in 40 CFR 63.693(d)(1) by either performing a performance test or a design analysis.

If the facility chooses to do a performance test, then the facility must conduct the test in accordance with the requirements of 40 CFR 63.694(1).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 168: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.693(d)(2)(ii), Subpart DD

Item 168.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Item 168.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must demonstrate that the carbon adsorption system achieves the performance requirements in 40 CFR 63.693(d)(1) by either conducting a performance test or a design analysis.

A facility that chooses to conduct a design analysis must include as part of this design analysis:

For a nonregenerable carbon adsorption system (e.g., a carbon canister), the design analysis shall address:

- 1) vent stream composition
- 2) constituent concentrations
- 3) flowrate
- 4) relative humidity
- 5) temperature
- 6) design exhaust vent stream organic compound concentration
- 7) carbon bed capacity
- 8) activated carbon type and working capacity
- 9) design carbon replacement interval based on the total carbon working capacity of the control device and emission point operating schedule.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



Condition 169: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.693(d)(4)(iii), Subpart DD

Item 169.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Item 169.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As an alternative to meeting the requirements in 40 CFR 63.693(d)(3) and (d)(4)(i), the facility owner or operator may choose to replace, on a regular basis, the carbon canister or the carbon in the control device using the procedures in either 40 CFR 63.693(d)(4)(iii)(A) or (B) for a nonregenerable carbon adsorption system. For the purposes of this condition, a nonregenerable carbon adsorption system means a carbon adsorption system that does not regenerate the carbon bed directly onsite in the control device, such as a carbon canister. The spent carbon removed from the nonregenerable carbon adsorption system must be managed according to the requirements in 40 CFR 63.693(d)(4)(ii).

The facility owner or operator shall replace either the existing carbon canister with a new carbon canister or replace the existing carbon in the control device with fresh carbon at a regular, predetermined time interval that is less than the design carbon replacement interval established as a requirement of 40 CFR 63.693(d)(2)(ii)(B).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 170: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.695(c)(1), Subpart DD

Item 170.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Item 170.2:



Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the facility uses a closed-vent system to comply with 40 CFR 63.693(c)(1)(i) for systems operating with no detectable organic emissions, then the facility shall be inspected and monitored as follows:

After initial startup, the facility shall inspect and monitor closed-vent system joints, seams, or other connections that are permanently or semi-permanently sealed (e.g., a welded joint between two sections of hard piping or a bolted and gasketed ducting flange) shall be visually inspected at least once per year to check for defects that could result in air emissions. The facility shall monitor a component or connection using the procedures specified in 40 CFR 63.694(k) to demonstrate that it operates with no detectable organic emissions following any time the component is repaired or replaced (e.g., a section of damaged hard piping is replaced with new hard piping) or the connection is unsealed (e.g., a flange is unbolted).

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 171: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.695(c)(3)(i), Subpart DD

Item 171.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Item 171.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility shall repair all detected defects in closed-vent systems by making first efforts at repair of the defect no later than 5 calendar days after detection and repair shall be completed as soon as possible but no later than 45 calendar days after detection.

Parameter Monitored: DAYS TO REPAIR

Upper Permit Limit: 45 days

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 172: Repair of leaks that take longer than 45 days
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.695(c)(3)(ii), Subpart DD

Item 172.1:

This Condition applies to Emission Unit: M-ISCES

Item 172.2:

Repair of a defect may be delayed beyond 45 calendar days if either of the following conditions occur:

1) Completion of the repair is technically infeasible without the shutdown of the process or unit that vents to the closed-vent system

2) The facility determines that the air emissions resulting from the repair of the defect within the specified period would be greater than the fugitive emissions likely to result by delaying the repair until the next time the process or unit that vents to the closed-vent system is shutdown.

In this case, the facility must repair the defect the next time the process or unit that vents to the closed-vent system is shut down. Repair of the defect must be completed before the process or unit resumes operation.

The facility shall keep a record of the defect repair in accordance with the requirements specified in 40 CFR 63.696.

Condition 173: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.696, Subpart DD

Item 173.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Item 173.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall comply with all of the recordkeeping requirements of 40 CFR Part 63.696.

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 174: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.697, Subpart DD

Item 174.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-ISCES

Item 174.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall comply with all of the reporting requirements of
40 CFR Part 63.697.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 175: Inspection and monitoring procedures for Container Level 1 and 2 controls
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.926(a), Subpart PP

Item 175.1:

This Condition applies to Emission Unit: M-ISCES

Item 175.2:

Owners/operators of containers using either Container Level 1 or Container Level 2 controls shall inspect the container and its cover and closure devices as follows:

1) When a regulated material already is in the container when the owner/operator first accepts possession of the container at the facility site and the container is not emptied within 24 hours after arrival, the container and its cover and closure devices shall be visually inspected by the owner/operator to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. This inspection shall be done on or before the date that the container is accepted at the facility. The date of acceptance shall be the date of signature of the facility owner or operator on the manifest or shipping papers accompanying the



container. The results of this inspection shall be logged, and shall be maintained at the facility for a minimum of 5 years.

2) When a container used for managing regulated material remains at the facility for one year or more, the container and its cover and closure devices shall be visually inspected by the owner/operator initially and at least once every 12 months thereafter to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. The results of this inspection shall be logged, and shall be maintained at the facility for a minimum of 5 years.

3) When a defect is detected for the container, cover, or closure devices, the owner/operator shall either empty regulated material from the container or repair the defective container. This shall be noted in the inspection log required above.

If the owner/operator chooses to empty the container, the regulated material must be transferred to either a container that meets the applicable standards under Subpart PP or to a tank, process, or treatment unit that meets Subpart DD. Transfer must be completed no later than 5 calendar days after detection of the defect. The emptied defective container must be either repaired, destroyed, or used for purposes other than management of regulated material. The disposition of this container shall be logged, and shall be maintained at the facility for a minimum of 5 years.

If the owner/operator chooses to repair the defective container, first efforts at repair must be made no later than 24 hours after detection of the defect. Final repair must be completed as soon as possible but no later than 5 calendar days after detection. If repair of a defect cannot be completed within 5 calendar days, the regulated material must be emptied from the container and the container must not be used to manage regulated material until the defect is repaired. The results of the repair of this container and any necessary material transfer shall be logged, and shall be maintained at the facility for a minimum of 5 years.

If this condition appears in a Title V permit, the monitoring activities in this condition shall be summarized in the semiannual progress report and annual compliance certification required under the permit.

Condition 176: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.172(f), Subpart H

Item 176.1:
The Compliance Certification activity will be performed for:

Emission Unit: S-TANKS

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 176.2:
Compliance Certification shall include the following monitoring:



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Each closed-vent system shall be inspected according to the following schedule:

- If the closed-vent system is constructed of hard-piping, the owner/operator shall conduct an initial inspection using the procedures listed in §63.180(b) [EPA Method 21] and then conduct annual visual inspections for visible, audible, or olfactory evidence of leaks.

- If the closed-vent system is constructed of ductwork, the owner/operator shall conduct an initial inspection using the procedures listed in §63.180(b) [EPA Method 21] and then conduct annual inspections using the same procedures as the initial inspection.

Leaks are indicated by an instrument reading greater than 500 ppm above background or by visual inspections. Leaks shall be repaired as soon as practical, with a first attempt at repair being made no later than five business days after the leak is detected and the repair shall be completed within 15 calendar days after the leak is detected. Delay of repair is allowed if the repair is technically infeasible without a process unit shutdown or if the owner/operator determines that the emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair to the leak shall then be complete by the end of the next unit shutdown.

Parameter Monitored: TOTAL HAP

Upper Permit Limit: 500 parts per million (by volume)

Reference Test Method: EPA Method 21

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME

(INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 177: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement: 40CFR 63.173(a)(1), Subpart H

Item 177.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-TANKS

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Item 177.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Non dual seal agitators in gas/vapor service and light liquid service must be checked monthly with a monitor (using the 40 CFR 63 H 180(b) method). A leak is 10,000 ppm (per 40 CFR 63 H 173(a)(2)). Repairs must be made within 5/15 days: 5 days for 1st attempt, 15 days for final repair (per 40 CFR 63 H 173(c)).

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 178: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.173(b)(1), Subpart H

Item 178.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-TANKS

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 178.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Non dual seal agitators in gas/vapor service and light liquid service must be visually checked weekly for leaks.

Monitoring Frequency: WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 179: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.685(g)(1), Subpart DD

Item 179.1:

The Compliance Certification activity will be performed for:



Emission Unit: S-TANKS

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 179.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any facility controlling HAP emissions from a tank by venting to a control device shall cover the tank with a fixed roof which meets the following requirements:

- 1) The fixed roof and its closure devices shall be designed to form a continuous barrier over the entire surface area of the liquid in the tank.
- 2) Each opening in the fixed roof not vented to the control device shall be equipped with a closure device. If the pressure in the vapor headspace underneath the fixed roof is less than atmospheric pressure when the closure device is operating, the closure devices shall be designed to operate such that when the closure device is secured in the closed position there are no visible cracks, holes, gaps, or other open spaces in the closure device or between the perimeter of the cover opening and the closure device. If the pressure in the vapor headspace underneath the fixed roof is equal to or greater than atmospheric pressure when the control device is operating, the closure device shall be designed to operate with no detectable organic emissions.
- 3) The fixed roof and its closure devices shall be made of suitable materials that will minimize exposure of the off-site material to the atmosphere, to the extent practical, and will maintain the integrity of the equipment throughout its intended service life. Factors to be considered when selecting the materials for and designing the fixed roof and closure devices shall include: organic vapor permeability, the effects of any contact with the liquid and its vapor managed in the tank; the effects of outdoor exposure to wind, moisture, and sunlight; and the operating practices used for the tank on which the fixed roof is installed.
- 4) The closed-vent system and control device shall be designed and operated in accordance with 40 CFR 63.693 - Standards: Closed-vent systems and control devices.

The fixed roof shall be inspected and monitored in accordance with the requirements in 40 CFR 63.695(b)(3).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 180: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.685(g)(2), Subpart DD

Item 180.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-TANKS

Item 180.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Whenever an off-site material is in the tank, the fixed roof shall be installed with each closure device secured in the closed position and the vapor headspace underneath the fixed roof vented to the control device except that venting to the control device is not required, and opening of closure devices or removal of the fixed roof is allowed at the following times:

- (i) To provide access to the tank for performing routine inspection, maintenance, or other activities needed for normal operations. Examples of such activities include those times when a worker needs to open a port to sample liquid in the tank, or when a worker needs to open a hatch to maintain or repair equipment. Following completion of the activity, the owner or operator shall promptly secure the closure device in the closed position or reinstall the cover, as applicable, to the tank.
- (ii) To remove accumulated sludge or other residues from the bottom of the tank.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 181: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.695(b)(3), Subpart DD

Item 181.1:

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



The Compliance Certification activity will be performed for:

Emission Unit: S-TANKS

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 181.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facilities that use a tank equipped with a fixed roof in accordance with §63.685(g) shall meet the following requirements:

- 1) The fixed roof and its closure devices shall be visually inspected by the owner/operator to check for defects that could result in air emissions. Defects include, but are not limited to, visible cracks, holes, or gaps in the roof sections or between the roof and the separator wall; broken, cracked, or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. In the case when a tank is buried partially or entirely underground, inspection is required only for those portions of the cover that extend to or above the ground surface, and those connections that are on such portions of the cover (e.g., fill ports, access hatches, gauge wells, etc.) and can be opened to the atmosphere.
- 2) The facility must perform an initial inspection following installation of the fixed roof. Thereafter, the owner/operator must perform the inspections at least once every calendar year except as provided for in §63.695(f).
- 3) In the event that a defect is detected, the owner/operator shall repair the defect in accordance with the requirements of §63.695(b)(4).
- 4) The owner/operator shall maintain a record of the inspection in accordance with §63.696(e).

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 182: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.695(b)(4), Subpart DD



Item 182.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-TANKS

Regulated Contaminant(s):

CAS No: ONY100-00-0 TOTAL HAP

Item 182.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall repair each defect detected during an inspection performed in accordance with the requirements of §63.695(b)(1), (2), or (3) in the following manner:

- The owner/operator shall within 45 calendar days of detecting the defect either repair the defect or empty the tank and remove it from service. If within this 45-day period the defect cannot be repaired or the tank cannot be removed from service without disrupting operations at the plant site, the owner/operator is allowed two 30-day extensions. In cases when an owner/operator elects to use a 30-day extension, the owner/operator shall prepare and maintain documentation describing the defect, explaining why alternative storage capacity is not available, and specify a schedule of actions that will ensure that the control equipment will be repaired or the tank emptied as soon as possible.

- When a defect is detected during an inspection of a tank that has been emptied and degassed, the owner/operator shall repair the defect before refilling the tank.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 183: Compliance Certification

Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.696, Subpart DD

Item 183.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-TANKS

Item 183.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall comply with all of the recordkeeping requirements of 40 CFR Part 63.696.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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

Condition 184: Compliance Certification
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable Federal Requirement:40CFR 63.697, Subpart DD

Item 184.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-TANKS

Item 184.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall comply with all of the reporting requirements of 40 CFR Part 63.697.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2016.

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



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

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS

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

**Condition 185: Contaminant List
Effective between the dates of 01/01/2016 and 12/31/2020**

Applicable State Requirement:ECL 19-0301

Item 185.1:

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

CAS No: 000108-90-7
Name: CHLOROBENZENE

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

CAS No: 001746-01-6

New York State Department of Environmental Conservation

Permit ID: 4-0103-00016/00048

Facility DEC ID: 4010300016



Name: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

CAS No: 007439-92-1

Name: LEAD

CAS No: 007439-97-6

Name: MERCURY

CAS No: 007440-38-2

Name: ARSENIC

CAS No: 007440-41-7

Name: BERYLLIUM

CAS No: 007440-43-9

Name: CADMIUM

CAS No: 007440-47-3

Name: CHROMIUM

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 007647-01-0

Name: HYDROGEN CHLORIDE

CAS No: 007782-50-5

Name: CHLORINE

CAS No: 012672-29-6

Name: POLYCHLORINATED BIPHENYLS (48%CL)

CAS No: 051207-31-9

Name: 2,3,7,8-TETRACHLORODIBENZOFURAN

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY100-00-0

Name: TOTAL HAP

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Condition 186: Malfunctions and start-up/shutdown activities
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable State Requirement:6 NYCRR 201-1.4

Item 186.1:

(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 187: Visible Emissions Limited
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable State Requirement:6 NYCRR 211.2

Item 187.1:

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 188: Compliance Demonstration
Effective between the dates of 01/01/2016 and 12/31/2020

Applicable State Requirement:6 NYCRR 211.2

Item 188.1:

