

Facility DEC ID: 5520500013

**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 5-5205-00013/00058  
Mod 0 Effective Date: 02/28/2017 Expiration Date: 02/27/2022  
Mod 1 Effective Date: 07/17/2019 Expiration Date: 02/27/2022  
Mod 2 Effective Date: 02/25/2019 Expiration Date: 02/27/2022  
Mod 3 Effective Date: Expiration Date:

Permit Issued To: LEHIGH CEMENT COMPANY LLC  
313 Warren St  
Glens Falls, NY 12801

Contact: Jana Frederick  
Lehigh Cement Company LLC  
313 Warren St  
Glens Falls, NY 12801  
(518) 223-1292

Facility: LEHIGH CEMENT COMPANY LLC  
313 WARREN ST  
GLENS FALLS, NY 12801

Description:  
The Lehigh Northeast Cement Company, located in Glens Falls, NY, consists of a Portland cement manufacturing operation and an associated quarry. Various types of Portland cements are produced using a combination of limestone, sand gypsum, and other materials of similar chemical composition. These materials are heated in the facility's rotary kiln to form cement clinker, which is cooled and ground to form cement.

Operations at the facility have been broken down into nine (9) emission units, each having related functions and processes, as follows:

- Stone quarrying and preliminary crushing (Emission Unit U-QUARY);
- Raw material storage and handling (Emission Unit U-RMHND);
- Raw material grinding (Emission Unit (U-RAWGR);
- Kiln or pyroprocessing system (Emission Unit U-KILN);
- Solid fuel (coal and DEC approved alternative fuels) (Emission Unit U-FUEL);
- Cement clinker transport and storage (Emission Unit U-CLTRN);

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Precrusher (Polycom)system (Emission Unit U-PLYCM);  
Finish mill\Product storage (Emission Unit U-FINML); and  
Product packing and loading (Emission Unit U-SHPNG).

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: BETH A MAGEE  
NYSDEC - WARRENSBURG SUBOFFICE  
232 GOLF COURSE RD  
WARRENSBURG, NY 12885-1172

Authorized Signature: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_\_

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### 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 \*\*\*\***

**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 3-1: Facility Inspection by the Department**  
**Applicable State Requirement: ECL 19-0305**

**Item 3-1.1:**

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 3-1.2:**

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 3-1.3:**

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 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 3-2: Relationship of this Permit to Other Department Orders and Determinations**

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

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**Item 3-2.1:**

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

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

**Item 2.1:**

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

**Condition 3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

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

**Item 3.2:**

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

**Item 3.3**

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

**Condition 4: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 4.1:**

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

**Item 4.2:**

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 3-3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3-3.1:**

The permittee must submit a separate written application to the Department for renewal,

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modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item3-3.2:

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

**Item 3-3.3**

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 1-1: Applications for permit renewals, modifications and transfers**  
**Applicable State Requirement: 6 NYCRR 621.11**

**Item 1-1.1:**

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

Item1-1.2:

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

**Item 1-1.3**

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

**Condition 2-1: Applications for permit renewals, modifications and transfers**  
**Applicable State Requirement: 6 NYCRR 621.11**

**Item 2-1.1:**

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

Item2-1.2:

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

**Item 2-1.3**

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

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**Condition 5: Permit modifications, suspensions or revocations by the Department**  
**Applicable State Requirement: 6 NYCRR 621.13**

**Item 5.1:**

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.

**Condition 3-4: Permit modifications, suspensions or revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.13**

**Item 3-4.1:**

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 3-5: Submission of application for permit modification or renewal-REGION 5**

**HEADQUARTERS**

**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 3-5.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
 NYSDEC Regional Permit Administrator  
 Region 5 Headquarters  
 Division of Environmental Permits



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Route 86, PO Box 296  
Ray Brook, NY 12977-0296  
(518) 897-1234

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

**Item 6.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
NYSDEC Regional Permit Administrator  
Region 5 Sub-office  
Division of Environmental Permits  
232 Golf Course Road  
Warrensburg, NY 12885-1172  
(518) 623-1281

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**Permit Under the Environmental Conservation Law (ECL)**

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: LEHIGH CEMENT COMPANY LLC  
313 Warren St  
Glens Falls, NY 12801

Facility: LEHIGH CEMENT COMPANY LLC  
313 WARREN ST  
GLENS FALLS, NY 12801

Authorized Activity By Standard Industrial Classification Code:  
3241 - CEMENT, HYDRAULIC

Permit Effective Date:

Permit Expiration Date:

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- 9 10 : Maintenance of Equipment
- 9 17 : Off Permit Changes
- 10 21 6 NYCRR Subpart 201-6: Emission Unit Definition
- 12 3-3 6 NYCRR 201-6.4 (f): Operational Flexibility
- 12 1-2 : Compliance Certification
- 19 3-4 6 NYCRR 201-6.4 (f): Compliance Certification
- 23 \*24 : Capping Monitoring Condition
- 25 29 : Compliance Certification
- 25 34 : Compliance Certification
- 26 3-5 6 NYCRR 220-1.4 (c): Compliance Certification
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- 28 35 : Compliance Certification
- 29 3-7 6 NYCRR 249.3 (a): Compliance Certification
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- 31 45 40CFR 60.13(d), NSPS Subpart A: Compliance Certification
- 32 46 40CFR 60.13(e), NSPS Subpart A: Compliance Certification
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- 35 48 40CFR 60.62(c), NSPS Subpart F: Compliance Certification
- 36 52 40CFR 63.1343(b)(1), Subpart LLL: Compliance Certification
- 37 53 40CFR 63.1343(b)(1), Subpart LLL: Compliance Certification
- 38 54 40CFR 63.1343(b)(1), Subpart LLL: Compliance Certification
- 39 55 40CFR 63.1343(b)(1), Subpart LLL: Compliance Certification
- 40 58 40CFR 63.1346, Subpart LLL: Compliance Certification
- 42 3-9 40CFR 63.1346(a), Subpart LLL: Compliance Certification
- 43 61 40CFR 63.1348(a), Subpart LLL: Compliance Certification
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- 47 66 40CFR 63.1349(a), Subpart LLL: Compliance Certification
- 49 67 40CFR 63.1349(b)(1), Subpart LLL: Compliance Certification
- 50 68 40CFR 63.1349(c), Subpart LLL: Performance Testing Frequency
- 51 73 40CFR 63.1350(i), Subpart LLL: Compliance Certification
- 52 3-10 40CFR 63.1350(k), Subpart LLL: Compliance Certification
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- 55 79 40CFR 63.1355, Subpart LLL: Compliance Certification

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- 57 82 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 62 83 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

**EU=0-UKILN**

- 83 3-11 40CFR 63.1343(b)(1), Subpart LLL: Compliance Certification
- 84 3-12 40CFR 63.1343(b)(1), Subpart LLL: Compliance Certification

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- 85 3-13 40CFR 63.1343(b)(1), Subpart LLL: Compliance Certification
- 86 3-14 40CFR 63.1343(b)(1), Subpart LLL: Compliance Certification
- 87 3-15 40CFR 63.1350(i), Subpart LLL: Compliance Certification

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- 88 87 40CFR 63.1349(b)(3), Subpart LLL: Performance testing requirements

**EU=0-UKILN,EP=01070**

- 89 90 40CFR 63.1349(b)(4), Subpart LLL: Performance Testing for Total Hydrocarbons
- 89 91 40CFR 63.1349(b)(5), Subpart LLL: Performance Testing Requirements for Mercury
- 90 92 40CFR 63.1349(b)(6), Subpart LLL: Performance Testing Requirements for Hydrogen Chloride

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- 93 95 : Malfunctions and start-up/shutdown activities
- 94 3-16 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 94 3-17 6 NYCRR 201-6.5 (a): CLCPA Applicability
- 95 3-18 6 NYCRR 220-1.6 (b): Compliance Demonstration
- 96 98 : Compliance Demonstration

NOTE: \* preceding the condition number indicates capping.

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**FEDERALLY ENFORCEABLE CONDITIONS**

Renewal 3/Mod 3/DRAFT

\*\*\*\* Facility Level \*\*\*\*

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

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

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

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

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

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

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

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

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

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by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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

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

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

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

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

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

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

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

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

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- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

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

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

- i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the department pursuant to the provisions of section 201- 6.6 of this Subpart.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

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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 K: 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 L: 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.**

**Condition 3-1: Recordkeeping requirements  
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 202-2.5****Item 3-1.1:**



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- (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 8: Recordkeeping requirements**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 3**

**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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS**  
**SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.**

**[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]**

**Condition 3-2: Maintenance of Equipment**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 200.7**

**Item 3-2.1:**

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.

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**Condition 10: Maintenance of Equipment**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 3**

**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 17: Off Permit Changes**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 3**

**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.

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

**Condition 21: Emission Unit Definition**

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Facility DEC ID: 5520500013

Effective between the dates of 02/28/2017 and Permit Expiration Date

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 21.1(From Mod 3):**

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

Emission Unit: 0-UFUEL

Emission Unit Description:

This emission unit consists of all operations and equipment involved in the storage, transfer, and preparation of coal, raggetail and other alternative fuels for use in the pyro-processing (kiln) system. Processes include the loading, unloading, hauling, and storage of the fuel and preparation of the fuel (by crushing) for use.

**Item 21.2(From Mod 3):**

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

Emission Unit: 0-UKILN

Emission Unit Description:

This emission unit consists of all operations and equipment involved in the production of cement clinker by the pyroprocessing (kiln) system. Processes include the transfer and weighing of raw feed, the firing of the kiln, and the transfer of excess cement kiln dust produced by the process.

Building(s): COOLER  
KFSILO  
PRECIP  
PRHEAT

**Item 21.3(From Mod 3):**

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

Emission Unit: U-CLTRN

Emission Unit Description:

This emission unit consists of all operations and equipment involved in the storage and transfer of cement clinker. Processes include material loading, unloading, indoor and outdoor storage and rail and truck loadout.

Building(s): CLSILO  
OFFSPC

**Item 21.4(From Mod 3):**

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

Emission Unit: U-FINML

Emission Unit Description:

This emission unit consists of all operations and equipment involved in the finish grinding of cement clinker and other materials within the finish mill.

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Processes include the storage, transfer, and weighing of materials (clinker and other additives), grinding of the materials, and the transfer and storage of the finished product.

Building(s): FINISH

**Item 21.5(From Mod 3):**

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

Emission Unit: U-PLYCM

Emission Unit Description:

This emission unit consists of all operations and equipment involved in the pre-crushing of cement clinker prior to processing in the finish mill system. Processes include the transfer and weighing of the clinker and crushing.

Building(s): PLYCOM

**Item 21.6(From Mod 3):**

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

Emission Unit: U-QUARY

Emission Unit Description:

This emission unit consists of all operations and equipment associated with the quarry portion of the facility. Associated sources and emission points include blasting, truck loading/unloading, stone hauling, stone crushing, and material storage/transfer operations. Fugitive emissions within the emission unit include road traffic and storage piles.

Building(s): RAWMAT

**Item 21.7(From Mod 3):**

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

Emission Unit: U-RAWGR

Emission Unit Description:

This emission unit consists of all operations and equipment involved in the production of raw feed for the pyroprocessing (kiln) system. Processes include the transfer, weighing, and mixing of raw materials, the formation of raw feed within the raw mill, and mixing/storage of various types of raw feeds.

Building(s): KFSILO

**Item 21.8(From Mod 3):**

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

Emission Unit: U-RMHND

Emission Unit Description:

This emission unit consists of all operations and

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equipment involved in the storage and handling of raw materials (other than quarry stone). These materials are all solids and may consist of iron bearing materials, silica bearing materials, calcium bearing materials or other materials which are similar in chemical and/or physical composition.

Building(s): KFSILO

**Item 21.9(From Mod 3):**

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

Emission Unit: U-SHPNG

Emission Unit Description:

This emission unit consists of all operations and equipment involved in the packing and bulk shipment of the finished product (cement). Processes include material transfer, weighing, packaging, and the loading of railcars for bulk shipping.

Building(s): STSILO  
WAREPK

**Condition 3-3: Operational Flexibility  
Effective for entire length of Permit**

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

**Item 3-3.1:**

A permit modification is not required for changes that are provided for in the permit. Such changes include approved alternate operating scenarios and changes that have been submitted and approved pursuant to an established operational flexibility protocol and the requirements of this section. Each such change cannot be a modification under any provision of Title I of the Clean Air Act or exceed, or cause the facility to exceed, an emissions cap or limitation in the permit. The facility owner or operator must incorporate all changes into any compliance certifications, record keeping, and/or reporting required by the permit.

**Condition 1-2: Compliance Certification  
Effective between the dates of 07/17/2019 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 3**

**Item 1-2.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

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**Item 1-2.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operational Flexibility Plan

I. Protocol Objective

The objective of this condition is to provide operational flexibility at the facility by building into the Title V permit the capability to run trials using alternative fuels or raw materials in its Portland Cement Kiln using a protocol. As provided under 6 NYCRR Part 201-6.4(f)(2), changes made under an approved protocol are not subject to the Title V permit modification provisions under 6 NYCRR Part 201-6.6.

II. Protocol

A. Criteria

1. Changes reviewed under this protocol shall be evaluated in accordance with the following criteria:

a. The change is a trial lasting no longer than 45 days, during which an alternative fuel or raw material is fed to the Kiln no more than 30 of those days.

b. All underlying federal and state requirements with which the temporarily changed emission source must comply must exist in the Title V permit with no necessary changes to existing monitoring, reporting, or record keeping requirements.

c. Any temporarily changed emission source(s) shall not be part of a source project that results in a

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significant net emissions increase that exceeds the New Source Review (NSR) thresholds identified in 6 NYCRR Part 231-2 or 40 CFR 52.21.

d. The proposed alternative fuel or raw material must meet all applicable requirements of 6 NYCRR Part 360.

e. The proposed alternative fuel or raw material must not be a solid waste, as determined pursuant to 40 CFR Part 241.3. It is the responsibility of the supplier of the alternative fuel and/or raw material to obtain a determination from the USEPA that the material is not a solid waste prior to the material being brought on site and allowed to be tested.

f. The proposed alternative fuel or raw material must not be a hazardous waste, pursuant to 40 CFR 261 or 6 NYCRR 371.

g. The use of the proposed alternative fuel shall not cause the sulfur content in the solid fuel mixture as burned to:

- i. Exceed 2.5 lbs/mmBtu (grab)
- ii. Exceed 1.9 lbs/mmBtu (90-day average)
- iii. Exceed 1.7 lbs/mmBtu (annual average)

h. If using a SO<sub>2</sub> CEMS to measure emissions of sulfur compounds (expressed as SO<sub>2</sub>) from the

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kiln to the outdoor atmosphere, the provisions of 6 NYCRR 225-1.4(a) must be met. In this case, the sulfur content in the solid fuel mixture limits above may be exceeded.

- i. The storage and handling of the proposed alternative fuel or raw materials shall be conducted such that fugitive emissions are minimized in accordance with 6 NYCRR 211.1 and 211.2.
- j. Estimated kiln stack emissions from use of the proposed alternative fuel or raw material shall not exceed permitted limitations.
- k. Mercury content of the proposed alternative fuel may not exceed 1.48E-5 lb/mmBTU which is comparable to the MACT limit of 55 lb Hg/mm tons of clinker.
- l. Vinyl Chloride must not be a constituent of the alternative fuel.
- m. The BTU content of the alternative fuel must equal or exceed 4,000 BTU/lb.

**B. Minimum Testing Required**

- 1. Trials proposed under the Protocol must include, at a minimum, the following emissions testing:
  - a. If there is any chlorine present in the proposed alternative fuel or raw material - test



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- for  
Dioxin/Furan (Total and TEQ) and  
hydrogen  
chloride;
- b. total hydrocarbons:
  - c. total filterable particulate matter (PM);
  - d. metals present in the alternative fuel at a level greater than that in the coal on a lb/mmBtu basis or in the alternative raw material at a level greater than in the current raw materials. At a minimum, the alternative fuel or raw material and the coal used during the trial must be sampled/analyzed for the following metals:  
arsenic, beryllium, cadmium, chromium, lead, mercury and nickel; and
  - e. any other contaminant as deemed necessary based on the nature of the specific alternative fuel or raw material.
2. Sampling/analysis of the alternative fuel/raw materials used during the trial sufficient to document its compliance with the permittee's acceptance criteria.
- C. Notification Requirements for Trials Proposed under the Protocol
- 1. The permittee shall notify the Department in writing of the proposed trial at least 30 days

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prior to its anticipated start date.

2. Notifications made in accordance with this

protocol will include the following documentation:

a. Identification of the Title V permit emission

unit, process(es), emission sources and

emission points affected by the proposed trial;

b. Description of the proposed trial, including but

not limited to, the following information:

i. The proposed date(s) and duration of the trial;

ii. Characterization of the material being proposed as an alternative fuel or raw material, including the facility's acceptance criteria, etc.;

iii. Parameters to be tested/monitored/recorded during the trial;

iv. The proposed number of days and rate at which the alternative fuel or raw material will be fed; and

v. The proposed method by which the alternative fuel or raw material will be fed to the kiln;

c. A protocol for any fuel or raw material sampling/

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analysis and stack emissions testing to  
be performed during the trial;

d. Identification and description of  
emissions control technology;

e. Proposed operating and record keeping  
procedures necessary to ensure compliance with  
respect to all state and/or federally applicable  
requirements;

f. Major NSR program non-applicability for  
NYSDEC review and approval;

g. Any other relevant information used to  
evaluate the proposed trial under the  
Protocol.

D. Review and Approval of Trials

1. The Department must provide written  
approval to permittee before they may proceed with  
the trial.

2. The Department may require that the  
permittee not undertake the proposed trial until it  
completes a more detailed review. The  
Department's determination shall include a listing  
of information required for further  
review, if necessary.

3. The Department may require that the  
permittee conduct additional fuel/raw material  
sampling/ analysis and/ or stack emissions  
testing

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during the trial.

4. The Department may require a permit modification, in order to impose new applicable requirements or additional permit conditions if it determines that changes proposed pursuant to notification do not meet the criteria under II. A. above or that the changes may have a significant air quality impact or be otherwise potentially significant under SEQRA (6 NYCRR Part 617).

E. Additional Compliance Obligations for Trials Conducted Under this Protocol

1. Upon commencement and for the duration of the trial, the facility shall comply with all applicable requirements and permit conditions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 3-4: Compliance Certification Effective for entire length of Permit**

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

**Item 3-4.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 3-4.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operational Flexibility Plan

I. Protocol Objective

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The objective of this condition is to provide operational flexibility at the facility by building into the Title V permit the capability to run trials using alternative fuels or raw materials in its Portland Cement Kiln using a protocol. As provided under 6 NYCRR Part 201-6.4(f)(2), changes made under an approved protocol are not subject to the Title V permit modification provisions under 6 NYCRR Part 201-6.6.

II. Protocol

A. Criteria

1. Changes reviewed under this protocol shall be evaluated in accordance with the following criteria:
  - a. The change is a trial lasting no longer than 45 days, during which an alternative fuel or raw material is fed to the Kiln no more than 30 of those days.
  - b. All underlying federal and state requirements with which the temporarily changed emission source must comply must exist in the Title V permit with no necessary changes to existing monitoring, reporting, or record keeping requirements.
  - c. Any temporarily changed emission source(s) shall not be part of a source project that results in a significant net emissions increase that exceeds the New Source Review (NSR) thresholds identified in 6 NYCRR Part 231-2 or 40 CFR 52.21.
  - d. The proposed alternative fuel or raw material must not be a solid waste, as determined pursuant to 40 CFR Part 241.3. It is the responsibility of the supplier of the alternative fuel and/or raw material to obtain a determination from the USEPA that the material is not a solid waste prior to the material being brought on site and allowed to be tested.
  - e. The proposed alternative fuel or raw material must not be a hazardous waste, pursuant to 40 CFR 261 or 6 NYCRR 371.
  - f. The storage and handling of the proposed alternative fuel or raw materials shall be conducted such that fugitive emissions are minimized in accordance with 6 NYCRR 211.
  - g. Estimated kiln stack emissions from use of the proposed alternative fuel or raw material shall not exceed permitted limitations.
  - h. Mercury content of the proposed alternative fuel may not exceed  $1.48E-5$  lb/mmBTU which is comparable to the MACT limit of 55 lb Hg/mm tons of clinker.
  - i. Vinyl Chloride must not be a constituent of the alternative fuel.

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j. The BTU content of the alternative fuel must equal or exceed 4,000 BTU/lb.

B. Minimum Testing Required

1. Trials proposed under the Protocol must include, at a minimum, the following emissions testing:

- a. If there is any chlorine present in the proposed alternative fuel or raw material - test for Dioxin/Furan (Total and TEQ) and hydrogen chloride;
- b. total hydrocarbons;
- c. total filterable particulate matter (PM);
- d. metals present in the alternative fuel at a level greater than that in the coal on a lb/mmBtu basis or in the alternative raw material at a level greater than in the current raw materials. At a minimum, the alternative fuel or raw material and the coal used during the trial must be sampled/analyzed for the following metals:

arsenic, beryllium, cadmium, chromium, lead, mercury and nickel; and

- e. any other contaminant as deemed necessary based on the nature of the specific alternative fuel.

2. Sampling/analysis of the alternative fuel/raw materials used during the trial sufficient to document its compliance with the permittee's acceptance criteria.

C. Notification Requirements for Trials Proposed under the Protocol

1. The permittee shall notify the Department in writing of the proposed trial at least 30 days prior to its anticipated start date.

2. Notifications made in accordance with this protocol will include the following documentation:

- a. Identification of the Title V permit emission unit, process(es), emission sources and emission points affected by the proposed trial;
- b. Description of the proposed trial, including but not limited to, the following information:
  - i. The proposed date(s) and duration of the trial;
  - ii. Characterization of the material being proposed as an alternative fuel or raw material, including the facility's acceptance criteria, etc.;
  - iii. Parameters to be tested/monitored/ recorded during the trial;
  - iv. The proposed number of days and rate at which the alternative fuel or raw material

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will be fed; and

v. The proposed method by which the alternative fuel or raw material will be fed to the kiln;

c. A protocol for any fuel or raw material sampling/ analysis and stack emissions testing to be performed during the trial;

d. Identification and description of emissions control technology;

e. Proposed operating and record keeping procedures necessary to ensure compliance with respect to all state and/or federally applicable requirements;

f. Major NSR program non-applicability for NYSDEC review and approval;

g. Any other relevant information used to evaluate the proposed trial under the Protocol.

D. Review and Approval of Trials

1. The Department must provide written approval to permittee before they may proceed with the trial.

2. The Department may require that the permittee not undertake the proposed trial until it completes a more detailed review. The Department's determination shall include a listing of information required for further review, if necessary.

3. The Department may require that the permittee conduct additional fuel/raw material sampling/ analysis and/ or stack emissions testing during the trial.

4. The Department may require a permit modification, in order to impose new applicable requirements or additional permit conditions if it determines that changes proposed pursuant to notification do not meet the criteria under II. A. above or that the changes may have a significant air quality impact or be otherwise potentially significant under SEQRA (6 NYCRR Part 617).

E. Additional Compliance Obligations for Trials Conducted Under this Protocol

1. Upon commencement and for the duration of the trial, the facility shall comply with all applicable requirements and permit conditions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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**Condition 24: Capping Monitoring Condition**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 3**

**Item 24.1:**

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

40 CFR Part 52, Subpart A

**Item 24.2:**

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

**Item 24.3:**

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

**Item 24.4:**

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

**Item 24.5:**

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

**Item 24.6:**

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

Emission Unit: U-CLTRN                      Emission Point: 0K06A

Emission Unit: U-CLTRN                      Emission Point: 0K06B

Emission Unit: U-CLTRN                      Emission Point: 0K06C

Regulated Contaminant(s):  
 CAS No: 0NY075-00-5      PM-10



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CAS No: 0NY075-00-0 PARTICULATES

**Item 24.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of particulate matter less than 10 microns (PM-10) is limited to less than 2.38 lb/hr from this process. Fugitive emissions of PM-10 have been estimated at 0.96 lb/hr. The effective cumulative limit is 3.34 lb/hr or 14.63 tpy.

Emissions of Solid Particulate Matter (PM) is limited to less than 2.83 lb/hr from this process. Fugitive emissions of PM have been estimated at 2.74 lb/hr. The effective cumulative limit is 5.57 lb/hr or 24.39 tpy. Initial verification of compliance was by stack test.

Subsequent compliance with these particulate emission standards will be determined by the permittee's observation of the outlet of the emission sources to determine whether or not visible emissions are present. Visible emissions will not include those due to water vapor that is present in the exhaust gas. Observations must be made once per day while operations are taking place. These observations must be recorded in a log book, and be made available to the Department on request. If visible emissions are observed for two consecutive days, a Method 9 visible emissions test must be conducted by a certified observer. If the Method 9 test determines that the opacity is greater than or equal to 10%, then corrective actions must be taken as soon as practicable.

The semiannual progress report and annual compliance certifications required of all permittees subject to Title V must include a summary of these observations as well as instances in which visible emissions were observed or in which observations could not be made due to weather conditions. If emissions greater than or equal to 10% opacity were observed, then a report of the time and the corrective measures taken, including when they were completed is to be included.

Compliance with this monitoring activity also demonstrates compliance with 6 NYCRR 212.4(c) and 40 CFR 60.62(c).

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Parameter Monitored: OPACITY  
 Upper Permit Limit: 10 percent  
 Reference Test Method: Method 9  
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
 Averaging Method: 6 MINUTE AVERAGE  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2017.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 29: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 3**

**Item 29.1:**

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

Emission Unit: U-QUARY      Emission Point: 00902

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

**Item 29.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Method 9 testing shall be performed as required by the  
 condition for this Emission Source under 6 NYCRR  
 212-2.4(a) in this permit.

Parameter Monitored: OPACITY  
 Upper Permit Limit: 20 percent  
 Reference Test Method: Visible Emissions Observation  
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
 Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
 SEE MONITORING DESCRIPTION  
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 34: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 3**

Permit ID: 5-5205-00013/00058

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**Item 34.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Any person who owns or operates an area, parking lot, clinker gallery, rail car loading shed, conveyor tunnel, access road, stockpile, building opening, or refuse disposal area at a portland cement plant that has the potential to emit visible emissions for one continuous hour or longer must apply corrective measures to eliminate such potential. This requirement shall be implemented thru daily inspections and appropriate action as described in GFLC's "Fugitive Dust Control Plan" which is an attachment to this permit.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: MATERIAL

Parameter Monitored: OPACITY

Upper Permit Limit: 0 percent

Monitoring Frequency: DAILY

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 7/30/2017.

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

**Condition 3-5: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 220-1.4 (c)**

**Item 3-5.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 3-5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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Any person who owns or operates an area, parking lot, clinker gallery, railcar loading shed, conveyor tunnel, access road, stockpile, building opening or refuse disposal area, at a Portland cement plant that has the potential to emit visible emissions for one continuous hour or longer, must apply corrective measures to eliminate such potential.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 3-6: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 225-1.2 (b)**

**Item 3-6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 3-6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners or operators of emission sources that fire solid fuel are limited to a maximum 2.5 lbs sulfur per mmBtu heat content limitation of the fuel. The owner or operator is also limited to a three month average limit of 1.9 lbs sulfur per mmBtu heat content limitation of the fuel. The three month average is calculated by dividing the total sulfur content by the total gross heat content of all solid fuels received during any three month consecutive period. Finally, the owner or operator is limited to an annual average limit of 1.7 lbs sulfur per mmBtu heat content limitation of the fuel. The annual average is calculated by dividing the total sulfur content by the total gross heat content of all solid fuels received during any twelve month consecutive period. Compliance with the sulfur-in-fuel limitations is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

Note - Process sources and incinerators must comply with the above requirements on or after July 1, 2023.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: COAL

Parameter Monitored: SULFUR CONTENT

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Upper Permit Limit: 2.5 pounds per million Btus  
 Monitoring Frequency: PER DELIVERY  
 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.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 35: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Expired by Mod 3**

**Item 35.1:**

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

Emission Unit: 0-UKILN	Emission Point: 01068
Emission Unit: 0-UKILN	Emission Point: 01070
Regulated Contaminant(s): CAS No: 007446-09-5	SULFUR DIOXIDE

**Item 35.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and/or operators of any stationary combustion installation that fires solid fuel with a total heat input greater than 250 million Btu per hour\* are limited to the firing of solid fuel with a sulfur content of 2.5 lbs/mmBtu maximum, 1.9 lbs/mmBtu\*\*\* average, and 1.7 lbs/mmBtu\*\*\*\* annual average.

\* Please note that if two or more emission sources are exhausted through a common emission point, the total heat input for such an emission point is either the sum of the maximum operating heat inputs of all emission sources which are operated simultaneously and exhausted through the common emission point, or the maximum operating heat input of any individual emission source operated independently and connected to the common emission point, whichever is greater.

\*\*\* Averages are computed for each emission source by dividing the total sulfur content by the total gross heat content of all solid fuel burned during any consecutive three-month period.

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\*\*\*\* Annual averages are computed for each emission source by dividing the total sulfur content by the total gross heat content of all solid fuel burned during any consecutive 12-month period.

All coal is blended and sampled daily as burned.

Compliance with this monitoring requirement also demonstrates compliance with BART requirements for SO<sub>2</sub>.

The facility must maintain any records on-site for a minimum of five years.

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 7/30/2017.

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

**Condition 3-7: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 249.3 (a)**

**Item 3-7.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

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

**Item 3-7.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

On or after May 18, 2021, emissions of Sulfur Dioxide are limited to 0.4 pounds per ton of clinker produced. Emissions shall be measured with continuous monitors and compliance is on a 30 day rolling basis. This is a requirement of consent decree Civil Action # 5:19-cv-05688 executed on November 18, 2020. This requirement will continue as Best Available Retrofit Technology (BART)



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**Condition 45: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.13(d), NSPS Subpart A**

**Expired by Mod 3**

**Item 45.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01070

**Item 45.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (1) Owners and operators of all continuous emission monitoring systems installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified. For continuous monitoring systems measuring opacity of emissions, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except that for systems using automatic zero adjustments. The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.
  
- (2) Unless otherwise approved by the Administrator, the following procedures shall be followed for continuous monitoring systems measuring opacity of emissions. Minimum procedures shall include a method for producing a simulated zero opacity condition and an upscale (span) opacity condition using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. Such procedures shall provide a system check of the analyzer internal optical surfaces and all electronic circuitry including the lamp and photodetector assembly.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION



Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2017.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 46: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.13(e), NSPS Subpart A**

**Expired by Mod 3**

**Item 46.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01070

**Item 46.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
 Monitoring Description:

Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under paragraph 40 CFR 60.13 (d) of this section, all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

(1) All continuous monitoring systems referenced by paragraph 40 CFR 60.13 (c) of this section for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(2) All continuous monitoring systems referenced by paragraph 40 CFR 60.13 (c) of this section for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

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 7/30/2017.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 47: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

**Applicable Federal Requirement:40CFR 60.13(h), NSPS Subpart A**

**Expired by Mod 3**

**Item 47.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-UKILN

Emission Point: 01070

**Item 47.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in §60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O<sub>2</sub> or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit.

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 7/30/2017.

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

**Condition 3-8: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.62(c), NSPS Subpart F**

**Item 3-8.1:**

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

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

Emission Unit: 0-UKILN      Emission Point: 01041

Emission Unit: U-CLTRN

Emission Unit: U-FINML

Emission Unit: U-PLYCM

Emission Unit: U-RAWGR

Emission Unit: U-RMHND

Emission Unit: U-SHPNG

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

**Item 3-8.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person will cause or allow emissions to the outdoor atmosphere of any material that has an average six-minute opacity of 10 percent or greater, except uncombined water, from a clinker cooler, raw mill system, finish mill system, raw mill dryer, raw material storage, clinker storage, finished product storage, conveyor transfer points, bagging and bulk loading and unloading systems which commenced construction or modification after August 17, 1971.

Compliance will be determined by the permittee's observation of the outlet of the emission source to determine whether or not visible emissions are present. Visible emissions will not include those due to water vapor that is present in the exhaust gas. Observations must be made once per day while operations are taking place. These observations must be recorded in a log book, and be made available to the Department on request. If visible emissions are observed for two consecutive days, a Method 9 visible emissions test must be conducted by a certified observer. If the Method 9 test determines that the opacity is greater than or equal to 10%, then this is a violation of this condition and must be reported to NYS DEC within 2 business days.

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Parameter Monitored: OPACITY  
 Upper Permit Limit: 10 percent  
 Reference Test Method: Method 9  
 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.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 48: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.62(c), NSPS Subpart F**

**Expired by Mod 3**

**Item 48.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01041

Emission Unit: U-CLTRN

Emission Unit: U-FINML

Emission Unit: U-PLYCM

Emission Unit: U-RAWGR

Emission Unit: U-RMHND

Emission Unit: U-SHPNG

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

**Item 48.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person will cause or allow emissions to the outdoor atmosphere of any material that has an average six-minute opacity of 10 percent or greater, except uncombined water, from a clinker cooler, raw mill system, finish mill system, raw mill dryer, raw material storage, clinker storage, finished product storage, conveyor transfer points, bagging and bulk loading and unloading systems

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

which commenced construction or modification after August 17, 1971.

Compliance will be determined by the permittee's observation of the outlet of the emission source to determine whether or not visible emissions are present. Visible emissions will not include those due to water vapor that is present in the exhaust gas. Observations must be made once per day while operations are taking place. These observations must be recorded in a log book, and be made available to the Department on request. If visible emissions are observed for two consecutive days, a Method 9 visible emissions test must be conducted by a certified observer. If the Method 9 test determines that the opacity is greater than or equal to 10%, then this is a violation of this condition and must be reported to NYS DEC within 2 business days.

Parameter Monitored: OPACITY

Upper Permit Limit: 0 percent

Reference Test Method: Visible Emissions

Monitoring Frequency: DAILY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 52: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 63.1343(b)(1), Subpart LLL**

**Expired by Mod 3**

**Item 52.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

Emission Unit: 0-UKILN                      Emission Point: 01122

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

**Item 52.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall demonstrate compliance with this limit

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Facility DEC ID: 5520500013

(0.07 lb/ton clinker) according to the provisions listed in 40 CFR 63.1349(b)(1). The facility must also install, operate, calibrate, and maintain a PM CPMS (continuous parametric monitoring system) in accordance with the provisions listed in 40 CFR 63.1350(b). The clinker production rate shall be calculated using the provisions listed in 40 CFR 63.1350(d).

Compliance with this monitoring activity demonstrates compliance with 6 NYCRR 220-1.3(b), 40 CFR 60.62(a)(1)(i), 40 CFR 60.62(b)(1)(iii) (NSPS) and Part 249 (BART).

63.1349(c) Performance test frequency. Except as provided in §63.1348(b), performance tests are required at regular intervals for affected sources that are subject to a dioxin, organic HAP or HCl emissions limit. Performance tests required every 30 months must be completed no more than 31 calendar months after the previous performance test except where that specific pollutant is monitored using CEMS; performance tests required every 12 months must be completed no more than 13 calendar months after the previous performance test.

Parameter Monitored: PARTICULATES  
 Upper Permit Limit: 0.07 pounds per ton  
 Reference Test Method: Method 5 or 5I  
 Monitoring Frequency: ANNUALLY  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 53: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.1343(b)(1), Subpart LLL**

**Expired by Mod 3**

**Item 53.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

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

**Item 53.2:**

Compliance Certification shall include the following monitoring:

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall demonstrate compliance with this limit according to the provisions listed in 40 CFR 63.1349(b)(5) which requires the facility to install, operate, calibrate, and maintain a mercury CEMS in accordance with the provisions listed in 40 CFR 63.1349(b)(5) which requires the facility to install, operate, calibrate, and maintain a mercury CEMS in accordance with the provisions listed in 40 CFR 63.1350(k). The clinker production rate must be calculated using the procedures listed in 40 CFR 63.1350(d). The initial compliance determination will be based on the first 30 operating days of production with the mercury CEMS installed. See 40 CFR 63.1348(a).

63.1349(c) Performance test frequency. Except as provided in §63.1348(b), performance tests are required at regular intervals for affected sources that are subject to a dioxin, organic HAP or HCl emissions limit. Performance tests required every 30 months must be completed no more than 31 calendar months after the previous performance test except where that specific pollutant is monitored using CEMS; performance tests required every 12 months must be completed no more than 13 calendar months after the previous performance test.

Parameter Monitored: MERCURY

Upper Permit Limit: 0.000055 pounds per ton

Reference Test Method: PS 12A of appendix B to part 60

Monitoring Frequency: ANNUALLY

Averaging Method: 30-DAY AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 54: Compliance Certification**

**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.1343(b)(1), Subpart LLL**

**Expired by Mod 3**

**Item 54.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

Regulated Contaminant(s):

CAS No: 0NY504-00-0      40 CFR 63 - TOTAL HYDROCARBONS (THC)

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

**Item 54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall demonstrate compliance with this limit according to the provisions listed in 40 CFR 63.1349(b)(4)(i). Use the THC CEMs to conduct the initial compliance test for the first 30 days of kiln operation after the compliance date of the rule. See 40 CFR 63.1348(a).

63.1349(c) Performance test frequency. Except as provided in §63.1348(b), performance tests are required at regular intervals for affected sources that are subject to a dioxin, organic HAP or HCl emissions limit. Performance tests required every 30 months must be completed no more than 31 calendar months after the previous performance test except where that specific pollutant is monitored using CEMS; performance tests required every 12 months must be completed no more than 13 calendar months after the previous performance test.

Parameter Monitored: 40 CFR 63 - TOTAL HYDROCARBONS (THC)

Upper Permit Limit: 24 parts per million by volume (dry, corrected to 7% O<sub>2</sub>)

Reference Test Method: PS 8A app B to part 60 & CMS requirements of 63 A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 30-DAY AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 55: Compliance Certification**

**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 63.1343(b)(1), Subpart LLL**

**Expired by Mod 3**

**Item 55.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

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

**Item 55.2:**

Compliance Certification shall include the following monitoring:



Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

If the facility operates a new kiln or an existing kiln after 9/8/2013, then the facility shall meet an emission limit for dioxins and furans of 0.4 ng/dscm (TEQ) corrected to 7% oxygen during normal operations and during periods of startup and shutdown, if the average temperature at the inlet to the first particulate matter control device (fabric filter or electrostatic precipitator) during the dioxin/furan performance test is 400F or less.

Initial compliance with this limit shall be determined according to the provisions in §63.1349(b)(3). The owner/operator shall conduct separate performance tests while the raw mill is operating and the raw mill is not operating. The D/F concentration must be determined for each run and the arithmetic average of the concentrations measured for the three runs must be calculated to determine compliance. §63.1349(c) requires the facility to perform subsequent performance tests every 30 months.

The facility must also demonstrate initial compliance with the temperature operating limits specified in §63.1346(a) by using the performance test methods and procedures listed in §63.1349(b)(3)(ii)-(iv).

Continuous compliance shall be determined by continuously monitoring and recording the temperature of specified gas streams such that it meets the requirements of §63.1350(g).

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

Upper Permit Limit: 0.4 nanograms per dry standard cubic meter (corrected to 7% O<sub>2</sub>)

Reference Test Method: Method 23 of 40 CFR 60, Appendix A-7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 58: Compliance Certification****Effective between the dates of 02/28/2017 and Permit Expiration Date****Applicable Federal Requirement:40CFR 63.1346, Subpart LLL****Expired by Mod 3****Item 58.1:**

The Compliance Certification activity will be performed for the facility:

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

The Compliance Certification applies to:

Emission Unit: 0-UKILN

Emission Point: 01068

Emission Unit: 0-UKILN

Emission Point: 01070

Regulated Contaminant(s):

CAS No: 001746-01-6

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

**Item 58.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(a) The owner or operator of a kiln subject to a D/F emissions limitation under §63.1343 must operate the kiln such that the temperature of the gas at the inlet to the kiln PM control device (PMCD) and alkali bypass PMCD, if applicable, does not exceed the applicable temperature limit specified in paragraph (b) of this section. The owner or operator of an in-line kiln/raw mill subject to a D/F emissions limitation under §63.1343 must operate the in-line kiln/raw mill, such that:

(1) When the raw mill of the in-line kiln/raw mill is operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in paragraph (b) of this section and established during the performance test when the raw mill was operating, is not exceeded, except during periods of startup and shutdown when the temperature limit may be exceeded by no more than 10 percent.

(2) When the raw mill of the in-line kiln/raw mill is not operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in paragraph (b) of this section and established during the performance test when the raw mill was not operating, is not exceeded, except during periods of startup/shutdown when the temperature limit may be exceeded by no more than 10 percent.

(3) ...

(b) The temperature limit for affected sources meeting the limits of paragraph (a) of this section or paragraphs (a)(1) through (a)(3) of this section is determined in accordance with §63.1349(b)(3)(iv).

(c) ...

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Facility DEC ID: 5520500013

(d) ...

(e) ...

(f) No kiln may use as a raw material or fuel any fly ash where the mercury content of the fly ash has been increased through the use of activated carbon, or any other sorbent, unless the facility can demonstrate that the use of that fly ash will not result in an increase in mercury emissions over baseline emissions (i.e., emissions not using the fly ash). The facility has the burden of proving there has been no emissions increase over baseline. Once the kiln is in compliance with a mercury emissions limit specified in §63.1343, this paragraph no longer applies.

(g) During periods of startup and shutdown you must meet the requirements listed in (g)(1) through (4) of this section.

(1) During startup you must use any one or combination of the following clean fuels: natural gas, synthetic natural gas, propane, distillate oil, synthesis gas (syngas), and ultra-low sulfur diesel (ULSD) until the kiln reaches a temperature of 1200 degrees Fahrenheit.

(2) Combustion of the primary kiln fuel may commence once the kiln temperature reaches 1200 degrees Fahrenheit.

(3) ...

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 3-9: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 63.1346(a), Subpart LLL**

**Item 3-9.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

**Item 3-9.2:**

Compliance Certification shall include the following monitoring:

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a kiln subject to a D/F emissions limitation under §63.1343 must operate the kiln such that the temperature of the gas at the inlet to the kiln PM control device does not exceed average temperatures achieved during the most recent stack test.

The owner or operator of an in-line kiln/raw mill subject to a D/F emissions limitation under §63.1343 must operate the in-line kiln/raw mill, such that:

(1) When the raw mill of the in-line kiln/raw mill is operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, established during the most recent performance test when the raw mill was operating, is not exceeded, except during periods of startup and shutdown when the temperature limit may be exceeded by no more than 10 percent.

(2) When the raw mill of the in-line kiln/raw mill is not operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, established during the most recent performance test when the raw mill was not operating, is not exceeded, except during periods of startup/shutdown when the temperature limit may be exceeded by no more than 10 percent.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 61: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 63.1348(a), Subpart LLL**

**Expired by Mod 3**

**Item 61.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

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

**Item 61.2:**

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

§63.1348 Compliance requirements.

(a) The owner/operator must demonstrate compliance with the mercury standards by using the performance test methods and procedures in 40 CFR 63.1349(b)(5) and 40 CFR 63.7. The owner/operator must demonstrate compliance by operating a mercury CEMS or a sorbent trap based CEMS. Compliance with the mercury emissions standard must be determined based on the first 30 operating days the owner/operator operate a mercury CEMS or sorbent trap monitoring system after the compliance date of this rule.

Note: The Glens Falls facility will utilize a sorbent trap monitoring system.

(i) In calculating a 30 operating day emissions value using an integrating sorbent trap CEMS, assign the average Hg emissions concentration determined for an integrating period (e.g., 7 day sorbent trap monitoring system sample) to each relevant hour of the kiln operating days spanned by each integrated sample. Calculate the 30 kiln operating day emissions rate value using the assigned hourly Hg emissions concentrations and the respective flow and production rate values collected during the 30 kiln operating day performance test period. Depending on the duration of each integrated sampling period, you may not be able to calculate the 30 kiln operating day emissions value until several days after the end of the 30 kiln operating day performance test period.

(ii) For example, a sorbent trap monitoring system producing an integrated 7-day sample will provide Hg concentration data for each hour of the first 28 kiln operating days (i.e., four values spanning 7 days each) of a 30 operating day period. The Hg concentration values for the hours of the last 2 days of the 30 operating day period will not be available for calculating the emissions for the performance test period until at least five days after the end of the subject period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 62: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

**Applicable Federal Requirement:40CFR 63.1348(b), Subpart LLL**

**Expired by Mod 3**

**Item 62.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-UKILN

Emission Point: 01068

Emission Unit: 0-UKILN

Emission Point: 01070

Emission Unit: 0-UKILN

Emission Point: 01122

Regulated Contaminant(s):

CAS No: 0NY504-00-0 40 CFR 63 - TOTAL HYDROCARBONS (THC)

**Item 62.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(b) Continuous Monitoring Requirements. You must demonstrate compliance with the emissions standards and operating limits by using the performance test methods and procedures in §§63.1350 and 63.8 for each affected source.

(1) General Requirements. (i) You must monitor and collect data according to §63.1350 and the site-specific monitoring plan required by §63.1350(p).

(ii) Except for periods of startup and shutdown, monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), you must operate the monitoring system and collect data at all required intervals at all times the affected source is operating.

(iii) You may not use data recorded during monitoring system startup, shutdown or malfunctions or repairs associated with monitoring system malfunctions in calculations used to report emissions or operating levels. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. You must use all the data

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collected during all other periods in assessing the operation of the control device and associated control system.

(iv) Clinker Production. If you are subject to limitations on mercury emissions (lb/MM tons of clinker) under §63.1343(b), you must determine the hourly production rate of clinker according to the requirements of §63.1350(d).

(2) PM Compliance. If you are subject to limitations on PM emissions under §63.1343(b), you must use the monitoring methods and procedures in §63.1350(b) and (d).

(3) ...

(4) D/F Compliance. If you are subject to a D/F emissions limitation under §63.1343(b), you must demonstrate compliance using a CMS that is installed, operated and maintained to record the temperature of specified gas streams in accordance with the requirements of §63.1350(g).

(5) ...

(6) THC Compliance. (i) If you are subject to limitations on THC emissions under §63.1343(b), you must demonstrate compliance using the monitoring methods and procedures in §63.1350(i) and (j).

(ii) THC must be measured either downstream of the coal mill or in the coal mill stack.

(7) Mercury Compliance. (i) If you are subject to limitations on mercury emissions in §63.1343(b), you must demonstrate compliance using the monitoring methods and procedures in §63.1350(k). If you use an integrated sorbent trap monitoring system to determine ongoing compliance, use the procedures described in §63.1348(a)(5) to assign hourly mercury concentration values and to calculate rolling 30 operating day emissions rates. Since you assign the mercury concentration measured with the sorbent trap to each relevant hour respectively for each operating day of the integrated period, you may schedule the sorbent trap change periods to any time of the day (i.e., the sorbent trap replacement need not be scheduled at 12:00 midnight nor must the sorbent trap replacements occur only at integral 24-hour intervals).

(ii) Mercury must be measured either downstream of the coal mill or in the coal mill stack.

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(8) ...

(9) Startup and Shutdown Compliance. Particulate control and all remaining devices that control hazardous air pollutants should be operational during startup and shutdown.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 63: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 63.1348(b)(9), Subpart LLL**

**Expired by Mod 3**

**Item 63.1:**

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

Emission Unit: 0-UKILN	Emission Point: 01068
Emission Unit: 0-UKILN	Emission Point: 01070
Emission Unit: 0-UKILN	Emission Point: 01122

**Item 63.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to demonstrate continuous compliance during periods of start up and shutdown the facility must operate all air pollution control devices.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

**Condition 66: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 63.1349(a), Subpart LLL**

**Expired by Mod 3**

**Item 66.1:**

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



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Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

Emission Unit: 0-UKILN                      Emission Point: 01122

**Item 66.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a portland cement plant must document performance test results in complete test reports that contain the information described in paragraphs (1) through (10) below, as well as all other relevant information. As described in 40 CFR 63.7(c)(2)(i), the facility owner or operator must make available to the Administrator prior to testing, if requested, the site-specific test plan to be followed during performance testing. For purposes of determining exhaust gas flow rate to the atmosphere from an alkali bypass stack or a coal mill stack, the facility owner or operator must either install, operate, calibrate and maintain an instrument for continuously measuring and recording the exhaust gas flow rate according to the requirements in paragraphs 40 CFR 63.1350(n)(1) through (10) or use the maximum design exhaust gas flow rate. For purposes of determining the combined emissions from kilns equipped with an alkali bypass or that exhaust kiln gases to a coal mill that exhausts through a separate stack, instead of installing a CEMS on the alkali bypass stack or coal mill stack, the facility owner or operator may use the results of the initial and subsequent performance test to demonstrate compliance with the relevant emissions limit.

- (1) A brief description of the process and the air pollution control system;
- (2) Sampling location description(s);
- (3) A description of sampling and analytical procedures and any modifications to standard procedures;
- (4) Test results;
- (5) Quality assurance procedures and results;
- (6) Records of operating conditions during the performance test, preparation of standards, and calibration procedures;

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(7) Raw data sheets for field sampling and field and laboratory analyses;

(8) Documentation of calculations;

(9) All data recorded and used to establish parameters for monitoring; and

(10) Any other information required by the performance test method.

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 67: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.1349(b)(1), Subpart LLL**

**Expired by Mod 3**

**Item 67.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

Emission Unit: 0-UKILN                      Emission Point: 01122

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

**Item 67.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) PM emissions tests. The owner or operator of a kiln and clinker cooler subject to limitations on PM emissions shall demonstrate initial compliance by conducting a performance test using Method 5 or Method 5I at appendix A-3 to part 60 of this chapter. You must also monitor continuous performance through use of a PM continuous parametric monitoring system (PM CPMS).

(i) For your PM CPMS, you will establish a site-specific operating limit. If your PM performance test demonstrates your PM emission levels to be below 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test, the milliamp or

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digital equivalent of zero output from your PM CPMS, and the average PM result of your compliance test to establish your operating limit. If your PM compliance test demonstrates your PM emission levels to be at or above 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test to establish your operating limit. You will use the PM CPMS to demonstrate continuous compliance with your operating limit. You must repeat the performance test annually and reassess and adjust the site-specific operating limit in accordance with the results of the performance test.

(A) Your PM CPMS must provide a 4-20 milliamp or digital signal output and the establishment of its relationship to manual reference method measurements must be determined in units of milliamps or the monitors digital equivalent.

(B) Your PM CPMS operating range must be capable of reading PM concentrations from zero to a level equivalent to three times your allowable emission limit. If your PM CPMS is an auto-ranging instrument capable of multiple scales, the primary range of the instrument must be capable of reading PM concentration from zero to a level equivalent to three times your allowable emission limit.

(C) During the initial performance test or any such subsequent performance test that demonstrates compliance with the PM limit, record and average all milliamp or digital output values from the PM CPMS for the periods corresponding to the compliance test runs (e.g., average all your PM CPMS output values for three corresponding Method 5I test runs).

(ii) Determine your operating limit as specified in paragraphs (b)(1)(iii) through (iv) of this section.

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 7/30/2017.

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

**Condition 68: Performance Testing Frequency**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 63.1349(c), Subpart LLL**

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**Expired by Mod 3**

**Item 68.1:**

Except as provided in 40 CFR 63.1348(b), performance tests are required at regular intervals for affected sources that are subject to a dioxin, organic HAP or HCl emissions limit under 40 CFR 63 Subpart LLL. Performance tests required every 30 months must be completed no more than 31 calendar months after the previous performance test except where that specific pollutant is monitored using CEMS; performance tests required every 12 months must be completed no more than 13 calendar months after the previous performance test.

**Condition 73: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 63.1350(i), Subpart LLL**

**Expired by Mod 3**

**Item 73.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

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

**Item 73.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

THC Monitoring Requirements. If you are subject to an emissions limitation on THC emissions, you must comply with the monitoring requirements of paragraphs (i)(1) and (i)(2) and (m)(1) through (m)(4) of this section. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (p)(4) of this section.

(1) You must install, operate, and maintain a THC continuous emission monitoring system in accordance with Performance Specification 8 or Performance Specification 8A of appendix B to part 60 of this chapter and comply with all of the requirements for continuous monitoring systems found in the general provisions, subpart A of this part. The owner or operator must operate and maintain each CEMS according to the quality assurance requirements in Procedure 1 of appendix F in part 60 of this chapter. For THC continuous emission monitoring systems certified under Performance Specification 8A, conduct the relative

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accuracy test audits required under Procedure 1 in accordance with Performance Specification 8, Sections 8 and 11 using Method 25A in appendix A to 40 CFR part 60 as the reference method; the relative accuracy must meet the criteria of Performance Specification 8, Section 13.2.

(2) Performance tests on alkali bypass and coal mill stacks must be conducted using Method 25A in appendix A to 40 CFR part 60 and repeated every 30 months.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 3-10: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 63.1350(k), Subpart LLL**

**Item 3-10.1:**

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

Emission Unit: 0-UKILN	Emission Point: 01068
Emission Unit: 0-UKILN	Emission Point: 01070
Regulated Contaminant(s): CAS No: 007439-97-6	MERCURY

**Item 3-10.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Mercury monitoring requirements.  
The owner or operator of a kiln subject to an emissions limitation on mercury emissions must install and operate a mercury continuous emissions monitoring system (Hg CEMS) in accordance with Performance Specification 12A (PS 12A) of appendix B to part 60 of this chapter or an integrated sorbent trap monitoring system in accordance with Performance Specification 12B (PS 12B) of appendix B to part 60 of this chapter. The system must monitor mercury continuously according to paragraphs (k)(1) through (5) of this section. This includes an annual Relative Accuracy Test Audit (RATA) to be performed with the raw mill on.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

**Condition 74: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.1350(k), Subpart LLL**

**Expired by Mod 3**

**Item 74.1:**

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

Emission Unit: 0-UKILN	Emission Point: 01068
Emission Unit: 0-UKILN	Emission Point: 01070
Regulated Contaminant(s):	
CAS No: 007439-97-6	MERCURY

**Item 74.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Mercury monitoring requirements. If you have a kiln subject to an emissions limitation on mercury emissions, you must install and operate a mercury continuous emissions monitoring system (Hg CEMS) in accordance with Performance Specification 12A (PS 12A) of appendix B to part 60 of this chapter or an integrated sorbent trap monitoring system in accordance with Performance Specification 12B (PS 12B) of appendix B to part 60 of this chapter. You must monitor mercury continuously according to paragraphs (k)(1) through (5) of this section. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (4) of this section.

(1) ...

(2) ...

(3) You must operate and maintain each Hg CEMS or an integrated sorbent trap monitoring system according to the quality assurance requirements in Procedure 5 of appendix F to part 60 of this chapter. During the RATA of integrated sorbent trap monitoring systems required under Procedure 5, you may apply the appropriate exception for sorbent trap section 2 breakthrough in (k)(3)(i) through

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(iv) of this section:

(i) For stack Hg concentrations  $>1 \mu\text{g}/\text{dscm}$ ,  $\leq 10\%$  of section 1 mass;

(ii) For stack Hg concentrations  $\leq 1 \mu\text{g}/\text{dscm}$  and  $>0.5 \mu\text{g}/\text{dscm}$ ,  $\leq 20\%$  of section 1 mass;

(iii) For stack Hg concentrations  $\leq 0.5 \mu\text{g}/\text{dscm}$  and  $>0.1 \mu\text{g}/\text{dscm}$ ,  $\leq 50\%$  of section 1 mass; and

(iv) For stack Hg concentrations  $\leq 0.1 \mu\text{g}/\text{dscm}$ , no breakthrough criterion assuming all other QA/QC specifications are met.

(4) Relative accuracy testing of mercury monitoring systems under PS 12A, PS 12B, or Procedure 5 must be conducted at normal operating conditions. If a facility has an inline raw mill, the testing must occur with the raw mill on.

(5) If you use a Hg CEMS or an integrated sorbent trap monitoring system, you must install, operate, calibrate, and maintain an instrument for continuously measuring and recording the exhaust gas flow rate to the atmosphere according to the requirements in paragraphs (n)(1) through (10) of this section. If kiln gases are diverted through an alkali bypass or to a coal mill and exhausted through separate stacks, you must account for the mercury emitted from those stacks by following the procedures in (k)(5)(i) through (iv) of this section:

(i) Develop a mercury hourly mass emissions rate by conducting performance tests annually, within 11 to 13 calendar months after the previous performance test, using Method 29, or Method 30B, to measure the concentration of mercury in the gases exhausted from the alkali bypass and coal mill.

(ii) On a continuous basis, determine the mass emissions of mercury in lb/hr from the alkali bypass and coal mill exhausts by using the mercury hourly emissions rate, the exhaust gas flow rate and hourly mercury emission rate to calculate hourly mercury emissions in lb/hr.

(iii) Sum the hourly mercury emissions from the kiln, alkali bypass and coal mill to determine total mercury emissions. Using hourly clinker production, calculate the hourly emissions rate in pounds per ton of clinker to determine your 30 day rolling average.

(iv) If mercury emissions from the coal mill and alkali bypass are below the method detection limit for two consecutive annual performance tests, you may reduce the frequency of the performance tests of coal mills and

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alkali bypasses to once every 30 months. If the measured mercury concentration exceeds the method detection limit, you must revert to testing annually until two consecutive annual tests are below the method detection limit.

(6) If you operate an integrated sorbent trap monitoring system conforming to PS 12B, you may use a monitoring period at least 24 hours but no longer than 168 hours in length. You should use a monitoring period that is a multiple of 24 hours (except during relative accuracy testing as allowed in PS 12B).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 79: Compliance Certification**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.1355, Subpart LLL**

**Expired by Mod 3**

**Item 79.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01068

Emission Unit: 0-UKILN                      Emission Point: 01070

Emission Unit: 0-UKILN                      Emission Point: 01122

Emission Unit: U-CLTRN  
 Process: K03

Emission Unit: U-CLTRN  
 Process: K04

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

**Item 79.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(a) The owner or operator shall maintain files of all information (including all reports and notifications) required by this section recorded in a form suitable and readily available for inspection and review as required by §63.10(b)(1). The files shall be retained for at least



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five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be retained off site. The files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche.

(b) The owner or operator shall maintain records for each affected source as required by §63.10(b)(2) and (b)(3) of this part; and

(1) All documentation supporting initial notifications and notifications of compliance status under §63.9;

(2) All records of applicability determination, including supporting analyses; and

(3) If the owner or operator has been granted a waiver under §63.8(f)(6), any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements.

(c) In addition to the recordkeeping requirements in paragraph (b) of this section, the owner or operator of an affected source equipped with a continuous monitoring system shall maintain all records required by §63.10(c).

(d) [Reserved]

(f) You must keep records of the date, time and duration of each startup or shutdown period for any affected source that is subject to a standard during startup or shutdown that differs from the standard applicable at other times, and the quantity of feed and fuel used during the startup or shutdown period.

(g)(1) You must keep records of the date, time and duration of each malfunction that causes an affected source to fail to meet an applicable standard; if there was also a monitoring malfunction, the date, time and duration of the monitoring malfunction; the record must list the affected source or equipment, an estimate of the volume of each regulated pollutant emitted over the standard for which the source failed to meet a standard, and a description of the method used to estimate the emissions.

(2) You must keep records of actions taken during periods of malfunction to minimize emissions in accordance with

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§63.1348(d) including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(h) For each exceedance from an emissions standard or established operating parameter limit, you must keep records of the date, duration and description of each exceedance and the specific actions taken for each exceedance including inspections, corrective actions and repeat performance tests and the results of those actions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

**Condition 82: Emission Point Definition By Emission Unit  
Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 82.1(From Mod 3):**

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

Emission Unit: 0-UKILN

Emission Point: 01041

Height (ft.): 10 Diameter (in.): 12  
NYTMN (km.): 4795.946 NYTME (km.): 611.95 Building: KFSILO

Emission Point: 01068

Height (ft.): 76 Diameter (in.): 76  
NYTMN (km.): 4795.94 NYTME (km.): 611.949 Building: PRECIP

Emission Point: 01070

Height (ft.): 76 Diameter (in.): 76  
NYTMN (km.): 4795.938 NYTME (km.): 611.949 Building: PRECIP

Emission Point: 01122

Height (ft.): 70 Diameter (in.): 114  
NYTMN (km.): 4795.984 NYTME (km.): 612.017 Building: COOLER

**Item 82.2(From Mod 3):**

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

Emission Unit: U-CLTRN

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Emission Point: 01118	Height (ft.): 67	Diameter (in.): 20	
	NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: OFFSPC
Emission Point: 01119	Height (ft.): 67	Diameter (in.): 20	
	NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: OFFSPC
Emission Point: 01123	Height (ft.): 34	Length (in.): 14	Width (in.): 13
	NYTMN (km.): 4795.993	NYTME (km.): 612.103	Building: CLSILO
Emission Point: 01811	Height (ft.): 200	Length (in.): 17	Width (in.): 20
	NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: CLSILO
Emission Point: 01812	Height (ft.): 231	Length (in.): 17	Width (in.): 20
	NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: CLSILO
Emission Point: 01830	Height (ft.): 260	Diameter (in.): 18	
	NYTMN (km.): 4795.997	NYTME (km.): 612.1	Building: CLSILO
Emission Point: 01910	Height (ft.): 25	Length (in.): 8	Width (in.): 8
	NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: CLSILO
Emission Point: 0K06A	Height (ft.): 7	Diameter (in.): 19	
	NYTMN (km.): 4795.984	NYTME (km.): 612.017	
Emission Point: 0K06B	Height (ft.): 71	Length (in.): 13	Width (in.): 11
	NYTMN (km.): 4795.993	NYTME (km.): 612.103	
Emission Point: 0K06C	Height (ft.): 56	Length (in.): 15	Width (in.): 12
	NYTMN (km.): 4795.993	NYTME (km.): 612.1	

**Item 82.3(From Mod 3):**

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

Emission Unit: U-FINML

Emission Point: 04031	Height (ft.): 90	Diameter (in.): 39	
	NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: FINISH

Emission Point: 04032

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Height (ft.): 90	Diameter (in.): 39	
NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: FINISH
Emission Point: 04210		
Height (ft.): 20	Diameter (in.): 14	
NYTMN (km.): 4795.99	NYTME (km.): 612.1	Building: FINISH
Emission Point: 04230		
Height (ft.): 20	Diameter (in.): 14	
NYTMN (km.): 4795.99	NYTME (km.): 612.098	Building: FINISH
Emission Point: 04250		
Height (ft.): 50	Diameter (in.): 30	
NYTMN (km.): 4795.996	NYTME (km.): 612.1	Building: FINISH
Emission Point: 04270		
Height (ft.): 110	Diameter (in.): 48	
NYTMN (km.): 4795.988	NYTME (km.): 612.105	Building: FINISH
Emission Point: 04290		
Height (ft.): 100	Diameter (in.): 16	
NYTMN (km.): 4795.996	NYTME (km.): 612.103	Building: FINISH
Emission Point: PTBIN		
Height (ft.): 65	Length (in.): 36	Width (in.): 84
NYTMN (km.): 4795.989	NYTME (km.): 611.755	
Emission Point: PTMIL		
Height (ft.): 4	Length (in.): 84	Width (in.): 96
NYTMN (km.): 4795.989	NYTME (km.): 611.755	

**Item 82.4(From Mod 3):**

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

Emission Unit:	U-PLYCM	
Emission Point: 01904		
Height (ft.): 8	Length (in.): 4	Width (in.): 10
NYTMN (km.): 4795.989	NYTME (km.): 611.755	
Emission Point: 01905		
Height (ft.): 8	Length (in.): 4	Width (in.): 10
NYTMN (km.): 4795.989	NYTME (km.): 611.755	
Emission Point: 01906		
Height (ft.): 8	Length (in.): 4	Width (in.): 10
NYTMN (km.): 4795.989	NYTME (km.): 611.755	
Emission Point: 01936		
Height (ft.): 99	Diameter (in.): 36	
NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: PLYCOM

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**Item 82.5(From Mod 3):**

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

Emission Unit: U-QUARY

Emission Point: 00902

Height (ft.): 54 Diameter (in.): 24  
 NYTMN (km.): 4795.483 NYTME (km.): 612.33

**Item 82.6(From Mod 3):**

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

Emission Unit: U-RAWGR

Emission Point: 01009

Height (ft.): 170 Diameter (in.): 24  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755 Building: KFSILO

Emission Point: PTRAW

Height (ft.): 5 Length (in.): 84 Width (in.): 120  
 NYTMN (km.): 4796.025 NYTME (km.): 611.791

**Item 82.7(From Mod 3):**

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

Emission Unit: U-RMHND

Emission Point: 01033

Height (ft.): 88 Diameter (in.): 20  
 NYTMN (km.): 4795.996 NYTME (km.): 612.101 Building: KFSILO

Emission Point: PT950

Height (ft.): 15 Length (in.): 144 Width (in.): 132  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755

**Item 82.8(From Mod 3):**

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

Emission Unit: U-SHPNG

Emission Point: 06000

Height (ft.): 15 Diameter (in.): 7  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755 Building: STSILO

Emission Point: 06049

Height (ft.): 15 Length (in.): 8 Width (in.): 8  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755

Emission Point: 06059

Height (ft.): 30 Length (in.): 11 Width (in.): 13

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NYTMN (km.): 4796.033 NYTME (km.): 611.789

Emission Point: 06245  
 Height (ft.): 45 Length (in.): 27 Width (in.): 15  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755 Building: STSILO

Emission Point: 06255  
 Height (ft.): 45 Length (in.): 27 Width (in.): 15  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755 Building: STSILO

Emission Point: 06302  
 Height (ft.): 8 Length (in.): 4 Width (in.): 6  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755

Emission Point: 06303  
 Height (ft.): 8 Length (in.): 4 Width (in.): 6  
 NYTMN (km.): 4795.996 NYTME (km.): 611.785

Emission Point: 06304  
 Height (ft.): 8 Length (in.): 4 Width (in.): 6  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755

Emission Point: 06305  
 Height (ft.): 8 Length (in.): 4 Width (in.): 6  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755

Emission Point: 06340  
 Height (ft.): 8 Length (in.): 4 Width (in.): 6  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755

Emission Point: 06375  
 Height (ft.): 33 Length (in.): 27 Width (in.): 15  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755 Building: WAREPK

Emission Point: 06695  
 Height (ft.): 15 Diameter (in.): 22  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755 Building: WAREPK

Emission Point: 06990  
 Height (ft.): 172 Length (in.): 9 Width (in.): 11  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755 Building: STSILO

Emission Point: 07000  
 Height (ft.): 172 Length (in.): 9 Width (in.): 11  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755 Building: STSILO

Emission Point: 07010  
 Height (ft.): 172 Length (in.): 9 Width (in.): 11  
 NYTMN (km.): 4795.989 NYTME (km.): 611.755 Building: STSILO

Emission Point: 07020

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Facility DEC ID: 5520500013

Height (ft.): 172	Length (in.): 11	Width (in.): 9
NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: STSILO
Emission Point: 07200		
Height (ft.): 15	Diameter (in.): 7	
NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: STSILO
Emission Point: 07333		
Height (ft.): 200	Length (in.): 20	Width (in.): 17
NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: STSILO
Emission Point: 07505		
Height (ft.): 30	Diameter (in.): 8	
NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: STSILO
Emission Point: 07526		
Height (ft.): 30	Diameter (in.): 8	
NYTMN (km.): 4795.989	NYTME (km.): 611.755	Building: STSILO

**Condition 83: Process Definition By Emission Unit**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 83.1(From Mod 3):**

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

Emission Unit: 0-UFUEL  
 Process: H01 Source Classification Code: 3-90-002-01  
 Process Description:  
 Loading, unloading, and hauling of coal (or other solid fuels). The fuel arrives on-site via trucks or rail cars.  
 The emissions associated with this process are fugitive.

Emission Source/Control: C0001 - Process

Emission Source/Control: C0004 - Process

**Item 83.2(From Mod 3):**

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

Emission Unit: 0-UFUEL  
 Process: H02 Source Classification Code: 3-05-006-99  
 Process Description:  
 Outdoor pile for the storage of coal or other solid fuels. The emissions associated with this process are fugitive.

Emission Source/Control: C0005 - Process

**Item 83.3(From Mod 3):**

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

Emission Unit: 0-UFUEL  
 Process: H03 Source Classification Code: 3-05-006-99  
 Process Description:  
 Loading, unloading, hauling, and preparation (crushing) of coal (or other solid fuels) prior to its use as a fuel in the kiln. The emissions associated with this process are fugitive.

Emission Source/Control: 01178 - Process

Emission Source/Control: C0006 - Process

**Item 83.4(From Mod 3):**

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

Emission Unit: 0-UFUEL  
 Process: H04 Source Classification Code: 3-09-002-01  
 Process Description:  
 Unloading, and conveying of raggertail. The fuel arrives on-site via trucks. The emissions associated with this process are fugitive.

Emission Source/Control: R0004 - Process

Emission Source/Control: R0005 - Process

**Item 83.5(From Mod 3):**

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

Emission Unit: 0-UKILN  
 Process: D01 Source Classification Code: 3-05-006-06  
 Process Description:  
 Equipment which transfers the kiln feed produced by the raw mill system into the pyroprocessing system or kiln.

Emission Source/Control: 1041B - Control  
 Control Type: FABRIC FILTER

Emission Source/Control: 1041A - Process  
 Design Capacity: 160 tons per hour

**Item 83.6(From Mod 3):**

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

Emission Unit: 0-UKILN  
 Process: D02 Source Classification Code: 3-05-006-06  
 Process Description:  
 Equipment for storage of kiln dust (produced as a by product of clinker production) which is cleaned out of the





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feed is transformed into cement clinker through slow rotation of the kiln and the application of high temperature. The heat for the process is provided through the combustion of coal, natural gas and compressor condensate generated on-site. This process exhausts to emission point 01070 and 01068.

Emission Source/Control: 1070B - Control  
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: 1070C - Control  
Control Type: SELECTIVE NON-CATALYTIC REDUCTION (SNCR)

Emission Source/Control: 1070E - Control  
Control Type: WET LIME INJECTION

Emission Source/Control: 1070A - Process  
Design Capacity: 160 tons per hour

**Item 83.11(From Mod 3):**

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

Emission Unit: 0-UKILN  
Process: G03 Source Classification Code: 3-05-006-06  
Process Description:

Operation of the pyroprocessing system without simultaneous operation of the raw mill. During this operation the raw feed is transformed into cement clinker through slow rotation of the kiln and the application of high temperature. The heat for the process is provided through the combustion of coal, natural gas and compressor condensate generated on-site. This process exhausts to emission point 01070 and 01068.

Emission Source/Control: 1070B - Control  
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: 1070C - Control  
Control Type: SELECTIVE NON-CATALYTIC REDUCTION (SNCR)

Emission Source/Control: 1070E - Control  
Control Type: WET LIME INJECTION

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

Emission Source/Control: 1070A - Process  
Design Capacity: 160 tons per hour

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**Item 83.12(From Mod 3):**

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

Emission Unit: 0-UKILN

Process: G04

Source Classification Code: 3-05-006-06

Process Description:

Operation of the pyroprocessing system with simultaneous operation of the raw mill. During this operation the raw feed is transformed into cement clinker through slow rotation of the kiln and the application of high temperature. The heat for the process is provided through the combustion of coal, natural gas, compressor condensate generated on-site with alternative fuels as approved under the Op-Flex provisions of this permit and subsequent permit modification for final authorization of use in this process. This process exhausts to emission point 01070 and 01068.

Emission Source/Control: 1070B - Control

Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: 1070C - Control

Control Type: SELECTIVE NON-CATALYTIC REDUCTION (SNCR)

Emission Source/Control: 1070E - Control

Control Type: WET LIME INJECTION

Emission Source/Control: 1070A - Process

Design Capacity: 160 tons per hour

**Item 83.13(From Mod 3):**

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

Emission Unit: 0-UKILN

Process: G05

Source Classification Code: 3-05-006-06

Process Description:

Operation of the pyroprocessing system without simultaneous operation of the raw mill. During this operation the raw feed is transformed into cement clinker through slow rotation of the kiln and the application of high temperature. The heat for the process is provided through the combustion of coal, natural gas, compressor condensate generated on-site with alternative fuels as approved under the Op-Flex provisions of this permit and subsequent permit modification for final authorization of use in this process. This process exhausts to emission point 01070 and 01068.

Emission Source/Control: 1070B - Control

Control Type: ELECTROSTATIC PRECIPITATOR

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Emission Source/Control: 1070C - Control  
 Control Type: SELECTIVE NON-CATALYTIC REDUCTION  
 (SNCR)

Emission Source/Control: 1070E - Control  
 Control Type: WET LIME INJECTION

Emission Source/Control: 1070A - Process  
 Design Capacity: 160 tons per hour

**Item 83.14(From Mod 3):**

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

Emission Unit: 0-UKILN  
 Process: G06 Source Classification Code: 3-05-006-06

Process Description:  
 Operation of the pyroprocessing system with simultaneous operation of the raw mill. During this operation the raw feed is transformed into cement clinker through slow rotation of the kiln and the application of high temperature. The heat for the process is provided through the combustion of coal, natural gas, compressor condensate generated on-site with Raggertail (alternative fuel). This process exhausts to emission point 01070 and 01068.

Emission Source/Control: 1070B - Control  
 Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: 1070C - Control  
 Control Type: SELECTIVE NON-CATALYTIC REDUCTION  
 (SNCR)

Emission Source/Control: 1070E - Control  
 Control Type: WET LIME INJECTION

Emission Source/Control: 1070A - Process  
 Design Capacity: 160 tons per hour

**Item 83.15(From Mod 3):**

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

Emission Unit: 0-UKILN  
 Process: G07 Source Classification Code: 3-05-006-06

Process Description:  
 Operation of the pyroprocessing system without simultaneous operation of the raw mill. During this operation the raw feed is transformed into cement clinker through slow rotation of the kiln and the application of high temperature. The heat for the process is provided through the combustion of coal, natural gas, compressor

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condensate generated on-site with Raggertail (alternative fuel). This process exhausts to emission point 01070 and 01068.

Emission Source/Control: 1070B - Control  
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: 1070C - Control  
Control Type: SELECTIVE NON-CATALYTIC REDUCTION (SNCR)

Emission Source/Control: 1070E - Control  
Control Type: WET LIME INJECTION

Emission Source/Control: 1070A - Process  
Design Capacity: 160 tons per hour

**Item 83.16(From Mod 3):**

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

Emission Unit: 0-UKILN  
Process: J01 Source Classification Code: 3-05-006-14  
Process Description:  
Operation of clinker cooler in which hot cement clinker produced by the kiln is cooled through the use of air movement.

Emission Source/Control: 1122B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 1122A - Process  
Design Capacity: 100 tons per hour

**Item 83.17(From Mod 3):**

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

Emission Unit: U-CLTRN  
Process: K01 Source Classification Code: 3-05-006-16  
Process Description:  
Transfer and storage of cement clinker (silo 1 system).

Emission Source/Control: 1118B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 1118A - Process  
Design Capacity: 100 tons per hour

**Item 83.18(From Mod 3):**

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

Emission Unit: U-CLTRN



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Emission Source/Control: 1910B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 1123A - Process

Emission Source/Control: 1811A - Process  
Design Capacity: 100 tons per hour

Emission Source/Control: 1812A - Process  
Design Capacity: 100 tons per hour

Emission Source/Control: 1830A - Process

Emission Source/Control: 1910A - Process  
Design Capacity: 100 tons per hour

**Item 83.22(From Mod 3):**

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

Emission Unit: U-CLTRN  
Process: K06 Source Classification Code: 3-05-320-32  
Process Description:  
Equipment for loadout of clinker by truck and rail.

Emission Source/Control: K06A0 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: K06B0 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: K06C0 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: K06A1 - Process  
Design Capacity: 300 tons per hour

Emission Source/Control: K06A2 - Process  
Design Capacity: 300 tons per hour

Emission Source/Control: K06A3 - Process  
Design Capacity: 300 tons per hour

Emission Source/Control: K06A4 - Process  
Design Capacity: 300 tons per hour

Emission Source/Control: K06B1 - Process  
Design Capacity: 100 tons

Emission Source/Control: K06C1 - Process  
Design Capacity: 300 tons per hour

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Emission Source/Control: K06C2 - Process

**Item 83.23(From Mod 3):**

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

Emission Unit: U-FINML

Process: M01

Source Classification Code: 3-05-006-07

Process Description:

Unloading of gypsum (or similar calcium sulfate-bearing materials) to a storage pile.

Emission Source/Control: GP001 - Process

**Item 83.24(From Mod 3):**

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

Emission Unit: U-FINML

Process: M02

Source Classification Code: 3-05-006-08

Process Description:

Emissions associated with the gypsum (or other calcium sulfate-bearing material) storage pile.

Emission Source/Control: GP002 - Process

**Item 83.25(From Mod 3):**

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

Emission Unit: U-FINML

Process: M03

Source Classification Code: 3-05-006-12

Process Description:

Emissions associated with the transfer of gypsum (or other calcium sulfate-bearing material) to a transfer hopper.

Emission Source/Control: GP003 - Process

**Item 83.26(From Mod 3):**

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

Emission Unit: U-FINML

Process: M04

Source Classification Code: 3-05-006-07

Process Description:

Unloading of marble (or similar calcium-bearing materials) to a storage pile.

Emission Source/Control: MR001 - Process

**Item 83.27(From Mod 3):**

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

Emission Unit: U-FINML





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**Item 83.32(From Mod 3):**

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

Emission Unit: U-FINML

Process: M10

Source Classification Code: 3-05-006-12

Process Description:

Processes and equipment associated with the transfer of materials from the os belt to the os elevator.

Emission Source/Control: 02010 - Process

**Item 83.33(From Mod 3):**

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

Emission Unit: U-FINML

Process: M11

Source Classification Code: 3-05-006-12

Process Description:

Equipment and processes associated with transfer of materials within the crane bay.

Emission Source/Control: 02008 - Process

Emission Source/Control: 02011 - Process

**Item 83.34(From Mod 3):**

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

Emission Unit: U-FINML

Process: M12

Source Classification Code: 3-05-006-12

Process Description:

Equipment and processes associated with the transfer of materials to the finish mill storage bins.

Emission Source/Control: 02012 - Process

Emission Source/Control: 02014 - Process

**Item 83.35(From Mod 3):**

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

Emission Unit: U-FINML

Process: N13

Source Classification Code: 3-05-006-17

Process Description:

Equipment used to transfer raw materials and cement clinker to finish mill #1 and the operation of the mill itself.

Emission Source/Control: 4031B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 30008 - Process

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Emission Source/Control: 4031A - Process  
Design Capacity: 50 tons per hour

**Item 83.36(From Mod 3):**

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

Emission Unit: U-FINML  
Process: N14 Source Classification Code: 3-05-006-17  
Process Description:  
Equipment used to transfer raw materials and cement  
clinker to finish mill #2 and the operation of the mill  
itself.

Emission Source/Control: 4032B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 30017 - Process

Emission Source/Control: 4032A - Process  
Design Capacity: 50 tons per hour

**Item 83.37(From Mod 3):**

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

Emission Unit: U-FINML  
Process: N15 Source Classification Code: 3-05-006-17  
Process Description:  
Proposed equipment used to transfer raw materials and  
cement to Finish Mill #3 and the operation of the mill  
itself.

Emission Source/Control: 4210B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 4230B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 4250B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 4270B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 4290B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 4210A - Process

Emission Source/Control: 4230A - Process

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Emission Source/Control: 4250A - Process

Emission Source/Control: 4270A - Process

Emission Source/Control: 4290A - Process

**Item 83.38(From Mod 3):**

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

Emission Unit: U-PLYCM

Process: L01

Source Classification Code: 3-05-006-17

Process Description:

Transfer, weighing, and crushing of cement clinker in the polycom crusher system.

Emission Source/Control: 1904B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 1905B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 1906B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 1936B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 01903 - Process

Emission Source/Control: 1904A - Process

Design Capacity: 100 tons per hour

Emission Source/Control: 1905A - Process

Design Capacity: 100 tons per hour

Emission Source/Control: 1906A - Process

Design Capacity: 100 tons per hour

Emission Source/Control: 1936A - Process

Design Capacity: 200 tons per hour

**Item 83.39(From Mod 3):**

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

Emission Unit: U-PLYCM

Process: L02

Source Classification Code: 3-05-006-16

Process Description:

Transfer of cement clinker (previously crushed by the polycom system) to storage.

Emission Source/Control: CL001 - Process





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Emission Unit: U-QUARY

Process: A09

Source Classification Code: 3-05-006-08

Process Description:

Storage of materials, such as quarry stone, in outdoor piles.

Emission Source/Control: OS001 - Process

**Item 83.49(From Mod 3):**

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

Emission Unit: U-QUARY

Process: A10

Source Classification Code: 3-05-006-08

Process Description:

Drop out for quarry stone used and sold for road maintenance.

Emission Source/Control: ST005 - Process

**Item 83.50(From Mod 3):**

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

Emission Unit: U-QUARY

Process: A11

Source Classification Code: 3-05-006-08

Process Description:

Storage of limestone and other calcium bearing materials for use in production or for resale.

Emission Source/Control: ST067 - Process

**Item 83.51(From Mod 3):**

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

Emission Unit: U-RAWGR

Process: C01

Source Classification Code: 3-05-006-13

Process Description:

Transfer, weighing, milling and blending of raw kiln feed and the raw materials from which it is produced.

Emission Source/Control: 10020 - Process

Emission Source/Control: 1009A - Process

Design Capacity: 200 tons per hour

**Item 83.52(From Mod 3):**

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

Emission Unit: U-RMHND

Process: B01

Source Classification Code: 3-05-006-08

Process Description:

Loading, unloading, and storage (in piles) of sand and

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other silica bearing materials.

Emission Source/Control: SD012 - Process

**Item 83.53(From Mod 3):**

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

Emission Unit: U-RMHND

Process: B02

Source Classification Code: 3-05-006-08

Process Description:

Loading, unloading, and storage (in piles) of iron ore and other iron bearing materials.

Emission Source/Control: I0012 - Process

**Item 83.54(From Mod 3):**

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

Emission Unit: U-RMHND

Process: B03

Source Classification Code: 3-05-006-12

Process Description:

Operating of material reclaimer and transfer of stored materials (belts 906, 953, 955, 950 and 956 and the storage pile). Materials transferred include stone, silica bearing, iron bearing, calcium bearing, and other raw materials with similar physical and chemical composition.

Emission Source/Control: 00950 - Process

**Item 83.55(From Mod 3):**

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

Emission Unit: U-RMHND

Process: B05

Source Classification Code: 3-05-006-12

Process Description:

Transfer of raw materials to and from storage silos and the silos themselves. Transfers include 950 to 955, 955 to 956, 956 to 957, 957 to 959, 959 to 958, 958 to 960 and 960 to silos.

Emission Source/Control: 1033B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00598 - Process

Emission Source/Control: 00955 - Process

Emission Source/Control: 00956 - Process

Emission Source/Control: 00957 - Process



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Emission Source/Control: 00959 - Process

Emission Source/Control: 1033A - Process  
Design Capacity: 600 tons per hour

**Item 83.56(From Mod 3):**

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

Emission Unit: U-SHPNG  
Process: P01 Source Classification Code: 3-05-006-18  
Process Description:  
Equipment for transferring and storing (silos) finished  
product (cement) for bulk shipment.

Emission Source/Control: 6990B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 7000B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 7010B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 7020B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 7333B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 6990A - Process  
Design Capacity: 50 tons per hour

Emission Source/Control: 7000A - Process  
Design Capacity: 50 tons per hour

Emission Source/Control: 7010A - Process  
Design Capacity: 50 tons per hour

Emission Source/Control: 7020A - Process  
Design Capacity: 50 tons per hour

Emission Source/Control: 7333A - Process  
Design Capacity: 100 tons per hour

**Item 83.57(From Mod 3):**

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

Emission Unit: U-SHPNG  
Process: P02 Source Classification Code: 3-05-006-19  
Process Description:

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Equipment for bulk loading of finished product (cement)  
into railcars and trucks.

Emission Source/Control: 6000B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 6049B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 6059B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 7200B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 6000A - Process  
Design Capacity: 600 tons per hour

Emission Source/Control: 6049A - Process  
Design Capacity: 600 tons per hour

Emission Source/Control: 6059A - Process  
Design Capacity: 600 tons per hour

Emission Source/Control: 7200A - Process  
Design Capacity: 600 tons per hour

**Item 83.58(From Mod 3):**

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

Emission Unit: U-SHPNG

Process: P03

Source Classification Code: 3-05-006-18

Process Description:

The silo 33 air slide system used in the transfer of  
finished product (cement).

Emission Source/Control: 7505B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 7526B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 7505A - Process  
Design Capacity: 600 tons per hour

Emission Source/Control: 7526A - Process  
Design Capacity: 600 tons per hour

**Item 83.59(From Mod 3):**

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

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Emission Unit: U-SHPNG

Process: Q01

Source Classification Code: 3-05-006-18

Process Description:

Equipment for transferring and storing (silos) finished product (cement) for packaging.

Emission Source/Control: 6245B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 6255B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 6245A - Process

Design Capacity: 50 tons per hour

Emission Source/Control: 6255A - Process

Design Capacity: 50 tons per hour

**Item 83.60(From Mod 3):**

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

Emission Unit: U-SHPNG

Process: Q02

Source Classification Code: 3-05-006-18

Process Description:

Equipment for transferring finished product (cement) from the storage silos to the packaging and bulk loading areas.

Emission Source/Control: 6302B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 6303B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 6304B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 6305B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 6340B - Control

Control Type: FABRIC FILTER

Emission Source/Control: 6302A - Process

Design Capacity: 70 tons per hour

Emission Source/Control: 6303A - Process

Design Capacity: 70 tons per hour

Emission Source/Control: 6304A - Process

Design Capacity: 70 tons per hour

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Emission Source/Control: 6305A - Process  
Design Capacity: 70 tons per hour

Emission Source/Control: 6340A - Process  
Design Capacity: 70 tons per hour

**Item 83.61(From Mod 3):**

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

Emission Unit: U-SHPNG  
Process: Q03 Source Classification Code: 3-05-006-19  
Process Description: Cement packaging (bagging) machines.

Emission Source/Control: 6375B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 6695B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 6375A - Process  
Design Capacity: 50 tons per hour

Emission Source/Control: 6695A - Process  
Design Capacity: 50 tons per hour

**Item 83.62(From Mod 1):**

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

Emission Unit: U-SHPNG  
Process: Q04 Source Classification Code: 3-05-006-19  
Process End Date: 12/1/2019  
Process Description: A cement packaging (bagging) machine.

Emission Source/Control: 6695B - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 6695A - Process  
Design Capacity: 50 tons per hour

**Condition 3-11: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63.1343(b)(1), Subpart LLL**

**Item 3-11.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-UKILN

Regulated Contaminant(s):

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

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

**Item 3-11.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

If the facility operates a kiln, then the facility shall meet an emission limit for dioxins and furans of 0.4 ng/dscm (TEQ) corrected to 7% oxygen during normal operations, if the average temperature at the inlet to the first particulate matter control device (fabric filter or electrostatic precipitator) during the dioxin/furan performance test is 400F or less.

Initial compliance with this limit shall be determined according to the provisions in §63.1349(b)(3). The owner/operator shall conduct separate performance tests while the raw mill is operating and the raw mill is not operating. The D/F concentration must be determined for each run and the arithmetic average of the concentrations measured for the three runs must be calculated to determine compliance.

The facility must also demonstrate initial compliance with the temperature operating limits specified in §63.1344 by using the performance test methods and procedures listed in §63.1349(b)(3)(ii)-(iv).

Continuous compliance shall be determined by continuously monitoring and recording the temperature of specified gas streams such that it meets the requirements of §63.1350(g).

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

Upper Permit Limit: 0.4 nanograms per dry standard cubic meter (corrected to 7% O<sub>2</sub>)

Reference Test Method: Method 23 of 40CFR60, Appendix A-7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 3-12: Compliance Certification  
Effective for entire length of Permit****Applicable Federal Requirement:40CFR 63.1343(b)(1), Subpart LLL****Item 3-12.1:**

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

The Compliance Certification activity will be performed for:

Emission Unit: 0-UKILN

Regulated Contaminant(s):

CAS No: 007439-97-6      MERCURY

**Item 3-12.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

If the facility operates an existing kiln after 9/8/2015 under normal conditions, then the kiln shall meet an emission limit for mercury of 55 lb/million tons of clinker produced.

The facility shall demonstrate compliance with this limit according to the provisions listed in §63.1348(a)(5) which requires the facility to install, operate, calibrate, and maintain a mercury CEMS in accordance with the provisions listed in §63.1350(k). The clinker production rate must be calculated using the procedures listed in §63.1350(d). The initial compliance determination will be based on the first 30 operating days of production with the mercury CEMS installed.

Parameter Monitored: MERCURY

Upper Permit Limit: .000055 pounds per ton

Reference Test Method: Perf. Spec. 12A or 12B of 40CFR60, App. B

Monitoring Frequency: CONTINUOUS

Averaging Method: 30-DAY AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 3-13: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63.1343(b)(1), Subpart LLL**

**Item 3-13.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-UKILN

Regulated Contaminant(s):

CAS No: 0NY504-00-0      40 CFR 63 - TOTAL HYDROCARBONS (THC)

**Item 3-13.2:**

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

If the facility operates an existing kiln after 9/8/2015, then the kiln shall meet an emission limit for total hydrocarbons (THC) of 24 ppmvd during normal operation.

The facility shall initially demonstrate compliance with this limit by using the performance test methods and procedures in §63.1349(b)(4)(i). The average THC concentration obtained during the first 30 operating days must be used to demonstrate compliance.

The facility shall then install, calibrate, operate, and maintain a THC continuous emission monitor (CEM) in accordance with the provisions in §63.1350(i) in order to continuously demonstrate compliance with the THC emission limit. The THC concentration will be calculated on a 30-day rolling average.

Any source subject to the 24 ppmvd limit for THC may elect to meet an alternative limit of 12 ppmvd for total organic HAP. If the source demonstrates compliance with the 12 ppmvd limit for total organic HAP under the requirements of §63.1349, then the source's THC limit will be adjusted to equal the average THC concentration measured during the performance test for organic HAP.

Manufacturer Name/Model Number: CAI 600 FID

Parameter Monitored: 40 CFR 63 - TOTAL HYDROCARBONS (THC)

Upper Permit Limit: 24 parts per million by volume (dry, corrected to 7% O<sub>2</sub>)

Reference Test Method: Perf. Spec. 8 of 40 CFR 60 appendix B

Monitoring Frequency: CONTINUOUS

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 3-14: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 63.1343(b)(1), Subpart LLL**

**Item 3-14.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-UKILN

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

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

**Item 3-14.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall demonstrate compliance with this limit (0.07 lb/ton clinker) for the kiln and clinker cooler according to the provisions listed in 40 CFR 63.1349(b)(1). The facility must also install, operate, calibrate, and maintain a PM CPMS (continuous parametric monitoring system) in accordance with the provisions listed in 40 CFR 63.1350(b). The clinker production rate shall be calculated using the provisions listed in 40 CFR 63.1350(d).

Compliance with this monitoring activity demonstrates compliance with 6 NYCRR 220-1.3(b), 40 CFR 60.62(a)(1)(i), 40 CFR 60.62(b)(1)(iii) (NSPS) and Part 249 (BART).

Performance tests are required every 12 months must be completed no more than 13 calendar months after the previous performance test.

Parameter Monitored: PARTICULATES  
 Upper Permit Limit: 0.07 pounds per ton  
 Reference Test Method: Method 5  
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 3-15: Compliance Certification  
 Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 63.1350(i), Subpart LLL**

**Item 3-15.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 0-UKILN

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

**Item 3-15.2:**



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Facility DEC ID: 5520500013

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a portland cement manufacturing facility that is subject to an emissions limitation on THC emissions must comply with the monitoring requirements of paragraphs (1) and (2) below and paragraphs (m)(1) through (m)(4) of 40 CFR 63.1350. The facility owner or operator must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (p)(4) of 40 CFR 63.1350.

(1) The facility owner or operator must install, operate, and maintain a THC continuous emission monitoring system in accordance with Performance Specification 8 or Performance Specification 8A of 40 CFR 60 appendix B and comply with all of the requirements for continuous monitoring systems found in 40 CFR 63 Subpart A, general provisions. The owner or operator must operate and maintain each CEMS according to the quality assurance requirements in Procedure 1 of 40 CFR 60 appendix F. For THC continuous emission monitoring systems certified under Performance Specification 8A, conduct the relative accuracy test audits required under Procedure 1 in accordance with Performance Specification 8, Sections 8 and 11 using Method 25A in 40 CFR 60 appendix A as the reference method; the relative accuracy must meet the criteria of Performance Specification 8, Section 13.2.

(2) Performance tests on alkali bypass and coal mill stacks must be conducted using Method 25A in 40 CFR 60 appendix A and repeated every 30 months.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 87: Performance testing requirements**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 63.1349(b)(3), Subpart LLL**

**Expired by Mod 3**

**Item 87.1:**

This Condition applies to Emission Unit: 0-UKILN Emission Point: 01068

**Item 87.2:**

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

The owner or operator of an affected source subject to limitations on D/F emissions shall demonstrate initial compliance with the D/F emission limit by conducting a performance test using Method 23 of appendix A of 40 CFR 60.

**Condition 90: Performance Testing for Total Hydrocarbons**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.1349(b)(4), Subpart LLL**

**Expired by Mod 3**

**Item 90.1:**

This Condition applies to Emission Unit: 0-UKILN Emission Point: 01070

**Item 90.2:**

The owner or operator of a portland cement plant subject to a limitation on total hydrocarbons must operate a CEMS in accordance with the requirements in 40 CFR 63.1350(i). For the purposes of conducting the accuracy and quality assurance evaluations for the CEMS, the THC span value (as propane) is 50 ppmv and the reference method (RM) is Method 25A of appendix A to part 60 of this chapter.

The facility owner or operator must conduct an initial performance test using the CEMS as described in 40 CFR 63.1349(b)(4)(ii) - (v).

**Condition 91: Performance Testing Requirements for Mercury**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.1349(b)(5), Subpart LLL**

**Expired by Mod 3**

**Item 91.1:**

This Condition applies to Emission Unit: 0-UKILN Emission Point: 01070

**Item 91.2:**

The owner or operator of a portland cement plant subject to limitations on mercury emissions under 40 CFR 63 Subpart LLL must operate a mercury CEMS or a sorbent trap monitoring system in accordance with the requirements of 40 CFR 63.1350(k). The initial compliance test must be based on the first 30 kiln operating days in which the affected source operates using a mercury CEMS or a sorbent trap monitoring system after the compliance date of the rule (see 40 CFR 63.1348(a)).

(i) If the facility is using a mercury CEMS or a sorbent trap monitoring system, the facility owner or operator must install, operate, calibrate, and maintain an instrument for continuously measuring and recording the exhaust gas flow rate to the atmosphere according to the requirements in 40 CFR 63.1350(k)(5).

(ii) Calculate the mercury emission rate using Equation 10 of 40 CFR 63.1349.

**Condition 92: Performance Testing Requirements for Hydrogen Chloride**

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013

Effective between the dates of 02/28/2017 and Permit Expiration Date

Applicable Federal Requirement: 40 CFR 63.1349(b)(6), Subpart LLL

**Expired by Mod 3****Item 92.1:**

This Condition applies to Emission Unit: 0-UKILN Emission Point: 01070

**Item 92.2:**

The owner or operator of a portland cement plant subject to limitations on HCl emissions under 40 CFR 63 Subpart LLL must conduct performance testing by one of the following methods:

(i)(A) If the source is equipped with a wet scrubber, tray tower or dry scrubber, the facility owner or operator must conduct performance testing using Method 321 of 40 CFR 63 appendix A unless the facility has installed a CEMS that meets the requirements of 40 CFR 63.1350(l)(1). For kilns with inline raw mills, testing should be conducted for the raw mill on and raw mill off conditions.

(B) The facility owner or operator must establish site specific parameter limits by using the CPMS required in 40 CFR 63.1350(l)(1). For a wet scrubber or tray tower, measure and record the pressure drop across the scrubber and/or liquid flow rate and pH in intervals of no more than 15 minutes during the HCl test. Compute and record the 24-hour average pressure drop, pH, and average scrubber water flow rate for each sampling run in which the applicable emissions limit is met. For a dry scrubber, measure and record the sorbent injection rate in intervals of no more than 15 minutes during the HCl test. Compute and record the 24-hour average sorbent injection rate and average sorbent injection rate for each sampling run in which the applicable emissions limit is met.

(ii)(A) If the source is not controlled by a wet scrubber, tray tower or dry sorbent injection system, the facility owner or operator must operate a CEMS in accordance with the requirements of 40 CFR 63.1350(l)(1) (see 40 CFR 63.1348(a)).

(B) The initial compliance test must be based on the 30 kiln operating days that occur after the compliance date of this rule in which the affected source operates using an HCl CEMS. Hourly HCl concentration data must be obtained according to 40 CFR 63.1350(l).

(iii) As an alternative to paragraph (i)(B) above, the facility owner or operator may choose to monitor SO<sub>2</sub> emissions using a CEMS in accordance with the requirements of 40 CFR 63.1350(l)(3). The facility owner or operator must establish an SO<sub>2</sub> operating limit equal to the average recorded during the HCl stack test where the HCl stack test run result demonstrates compliance with the emission limit. This operating limit will apply only for demonstrating HCl compliance.

(iv) If kiln gases are diverted through an alkali bypass or to a coal mill and exhausted through a separate stack, the facility owner or operator must calculate a kiln-specific HCl limit using Equation 11 of 40 CFR 63.1349.

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**STATE ONLY ENFORCEABLE CONDITIONS****\*\*\*\* Facility Level \*\*\*\*****NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability**

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

An emergency, as defined in 6 NYCRR 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 demonstrate, 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 facility was being properly operated and maintained;
- (3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the 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 any 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 malfunction provision contained in any applicable requirement.

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

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

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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 94: Contaminant List**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable State Requirement: ECL 19-0301**

#### **Item 94.1:**

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

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

CAS No: 007439-97-6  
Name: MERCURY

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

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

CAS No: 0NY075-00-5  
Name: PM-10

CAS No: 0NY100-00-0  
Name: TOTAL HAP

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CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY504-00-0

Name: 40 CFR 63 - TOTAL HYDROCARBONS (THC)

CAS No: 0NY998-00-0

Name: VOC

**Condition 95: Malfunctions and start-up/shutdown activities**  
**Effective between the dates of 02/28/2017 and Permit Expiration Date**

**Applicable State Requirement:**

**Expired by Mod 3**

**Item 95.1:**

(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

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requirements listed above must be adhered to in such circumstances.

**Condition 3-16: Malfunctions and Start-up/Shutdown Activities  
Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 201-1.4**

**Item 3-16.1:**

(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 maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, 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 monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall 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. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. 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, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility 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 3-17: CLCPA Applicability  
Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 201-6.5 (a)**

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**Item 3-17.1:**

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

**Condition 3-18: Compliance Demonstration  
Effective for entire length of Permit****Applicable State Requirement: 6 NYCRR 220-1.6 (b)****Item 3-18.1:**

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

Emission Unit: 0-UKILN	Emission Point: 01068
Emission Unit: 0-UKILN	Emission Point: 01070
Regulated Contaminant(s): CAS No: 0NY210-00-0	OXIDES OF NITROGEN

**Item 3-18.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

On or after 18 May 2021, emissions of Nitrogen Oxides are limited to 2.5 pounds per ton of clinker produced. Emissions shall be measured with continuous monitors and compliance is on a 30 day rolling basis. This is a requirement of consent decree Civil Action # 5:19-cv-05688 executed on November 18, 2020. This requirement will continue as NOx RACT after the consent decree expires and will also satisfy the requirements of Best Available Retrofit Technology (BART).

Manufacturer Name/Model Number: ABB Advanced Optima Limas Model 11 NDUV

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.5 pounds per ton

Reference Test Method: PS-2

Monitoring Frequency: CONTINUOUS

Averaging Method: 30 DAY ROLLING AVERAGE, ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 98: Compliance Demonstration**



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Effective between the dates of 02/28/2017 and Permit Expiration Date

**Applicable State Requirement:****Expired by Mod 3****Item 98.1:**

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

Emission Unit: 0-UKILN                      Emission Point: 01070

Regulated Contaminant(s):  
CAS No: 0NY210-00-0      OXIDES OF NITROGEN**Item 98.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

Emissions of Oxides of Nitrogen (NO<sub>x</sub>) from the cement kiln are limited to no more than 2.88 pounds per ton of clinker produced. This is based upon the use of selective non-catalytic reduction (SNCR) with a manufacturers guarantee of 50% control, as proposed in Lehigh's NO<sub>x</sub> RACT plan, submitted electronically on November 30, 2010 and subsequently amended.

Compliance with this requirement demonstrates compliance with 6 NYCRR 220-1.6(b) as well as 6 NYCRR 249.3(a). The effective deadlines for each requirement are July 1, 2012 for Part 220-1.6(b) and January 1, 2014 for Part 249.3(a).

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: CLINKER

Manufacturer Name/Model Number: ABB/Advance Optima Limas Model 11 NDUV Analyzer

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.88 pounds per ton

Reference Test Method: CFR 60/App A/Mt 4.7

Monitoring Frequency: DAILY

Averaging Method: 30 DAY ROLLING AVERAGE, ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Permit ID: 5-5205-00013/00058

Facility DEC ID: 5520500013