



**New York State Department of Environmental Conservation  
Permit Review Report**

**Permit ID: 4-1926-00001/00110**

**Renewal Number: 1**

**07/12/2012**

**Facility Identification Data**

Name: LEHIGH NORTHEAST CEMENT CO - CEMENTON TERMINAL

Address: 120 ALPHA BLVD US RTE 9W

CEMENTON, NY 12415

**Owner/Firm**

Name: LEHIGH NORTHEAST CEMENT COMPANY

Address: 313 WARREN ST

GLENS FALLS, NY 12801, USA

Owner Classification: Corporation/Partnership

**Permit Contacts**

Division of Environmental Permits:

Name: KAREN M GAIDASZ

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SCHENECTADY, NY 12306

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Division of Air Resources:

Name: EDWARD A PELLEGRINI

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1130 N WESTCOTT RD

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Air Permitting Facility Owner Contact:

Name: CHERYL MCELROY

Address: LEHIGH NORTHEAST CEMENT COMPANY

120 ALPHA RD

CATSKILL, NY 12414

Phone:5189435300

**Permit Description**

**Introduction**

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

**Summary Description of Proposed Project**

Title V renewal application.

**Attainment Status**

LEHIGH NORTHEAST CEMENT CO - CEMENTON TERMINAL is located in the town of CATSKILL



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in the county of GREENE.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	MARGINAL NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

\* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

\*\* NOx has a separate ambient air quality standard in addition to being an ozone precursor.

**Facility Description:**

The facility consists of cement finish grinding, packaging and shipping operations and an associated quarry. Major equipment includes stone crushers, storage silos, a rotary slag dryer, roll press, 3 finish mills and packaging/bulk loading (for trucks and railcars) equipment. The facility also includes marine loading/unloading operations which occur at the facility's docks. The Alsen property (adjacent, contiguous and under Lehigh Northeast Cement Co. control) provides additional storage and dock capacity.

**Permit Structure and Description of Operations**

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

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

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LEHIGH NORTHEAST CEMENT CO - CEMENTON TERMINAL is defined by the following emission unit(s):

Emission unit UALSEN - THIS EMISSION UNIT CONSISTS OF THE OPERATIONS AND EQUIPMENT WHICH OCCUR AT THE ALSEN FACILITY. THE FACILITY IS USED PRIMARILY FOR MATERIALS STORAGE AND AS A MARINE LOADING/UNLOADING SITE. THE FACILITY'S BOUNDARY IS CONTIGUOUS WITH THAT OF THE CEMENTON FACILITY AND UNDER THE CONTROL OF THE CEMENTON FACILITY. SEVERAL PROCESSES WITHIN THIS EMISSION UNIT HAVE BEEN DESIGNATED "INSIGNIFICANT" 6 NYCRR 201-6.3(d)(7).

Emission unit UALSEN is associated with the following emission points (EP):

A0001

Process: A01 UNLOADING OF RAW MATERIALS IDENTIFIED AS "BUD (BENEFICIAL USE DETERMINATION) MATERIALS" PER 6 NYCRR 360-1.15 AT THE ALSEN DOCK. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7). THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE.

Process: A02 UNLOADING OF RAW MATERIAL IDENTIFIED AS "NON BUD (BENEFICIAL USE DETERMINATION) MATERIALS" AT THE ALSEN DOCK. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7). THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE.

Process: A03 TRANSFER OF RAW MATERIALS IDENTIFIED AS "BUD (BENEFICIAL USE DETERMINATION) MATERIALS" PER 6 NYCRR 360-1.15 FROM THE ALSEN DOCK TO ALSEN STORAGE. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201.6.3(d)(7).

Process: A04 TRANSFER OF RAW MATERIALS IDENTIFIED AS "NON BUD MATERIALS" FROM THE ALSEN DOCK TO ALSEN STORAGE. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: A05 Erosion of storage piles of raw materials identified as "BUD (Beneficial Use determination) Materials" per 6 NYCRR 360-1.15. Throughput information is not required to determine compliance. These emissions are fugitive.

Process: A06 EROSION OF OUTDOOR STORAGE PILES OF RAW MATERIALS IDENTIFIED AS "NON BUD MATERIALS". THESE EMISSIONS ARE FUGITIVE.

Process: A09 TRAFFIC AT THE ALSEN SITE, INCLUDING VEHICLES TRANSPORTING RAW MATERIALS FROM THE DOCK AREA TO THE STORAGE AREA.

Emission unit UCLTRN - THE CLINKER TRANSPORT EMISSION UNIT INCLUDES ALL OPERATIONS INVOLVED WITH THE TRANSFER AND STORAGE OF CLINKER, DRIED SLAG AND CEMENT ADDITIVES TO AND WITHIN THE ENCLOSED CLINKER STORAGE SHED. THE CEMENTON FACILITY ACCEPTS CEMENT CLINKER, SLAG AND ADDITIVES PRODUCED AT OTHER FACILITIES, THESE MATERIALS CAN BE DELIVERED BY MARINE VESSEL, RAIL OR TRUCK.

Emission unit UCLTRN is associated with the following emission points (EP):

CL01A, K0004, TRUL1, TRUL2

Process: CL1 is located at Building FINMILL - TRANSFER OF CEMENT CLINKER FROM THE CLINKER COOLER TO STORAGE (CLINKER DISCHARGE). ALSO THE UNLOADING AND TRANSFER OF CEMENT CLINKER AND OTHER SOLID MATERIALS FROM OFF SITE TO STORAGE IN THE CLINKER HALL. CONVEYORS AND ELEVATOR SYSTEM ARE CONTROLLED.

Process: CL2 EROSION OF CLINKER STORAGE IN THE SEMI ENCLOSED STRUCTURE KNOWN



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AS THE CRANE BAY. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: CL3 TRANSFER AND MOVEMENT OF STORED CLINKER (BY CRANE OR OTHER MECHANICAL DEVICES). THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE.

Process: CL4 EROSION OF CLINKER STORED IN OUTDOOR (NON ENCLOSED) PILES. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: CL5 THESE EMISSIONS ARE FUGITIVE. THIS PROCESS INCLUDES MARINE VESSEL UNLOADING.

Process: CLH TRANSFER OF DRIED SLAG FROM THE SLAG DRYER TO THE CLINKER HALL INTO THE FINISH MILLS.

Process: ULD NEW TRUCK AND RAIL UNLOADING FACILITY.

Emission unit UFINML - THIS EMISSION UNIT CONSISTS OF THE OPERATIONS AND EQUIPMENT INVOLVED IN THE PRODUCTION OF FINISHED PRODUCTS (CEMENT) FROM CEMENT CLINKER, SLAG, AND OTHER ADDITIVES. PROCESSES INCLUDE THE STORAGE, TRANSFER AND WEIGHING OF MATERIALS. IT ALSO INCLUDES FINAL CRUSHING IN THE ROLL PRESS AND GRINDING OF THESE MATERIALS WITHIN THE FACILITY'S THREE FINISH MILLS TO PRODUCE VARIOUS GRADES OF CEMENT TO MEET VARYING CUSTOMER SPECIFICATIONS. ANY OVER SIZED PARTICLES WHICH HAVE NOT BEEN GROUND TO AN ACCEPTABLE SIZE ARE RE-CIRCULATED THROUGH THE MILL SYSTEM UNTIL SIZE REQUIREMENTS ARE SATISFIED.

Emission unit UFINML is associated with the following emission points (EP):

00054, FM001, FM002, FM003, FM004, FM006, FM007, FM009, RM001

Process: F01 OPERATION OF FINISH MILL #1 DURING WHICH CEMENT CLINKER, SLAG, AND OTHER ADDITIVES ARE GROUND INTO FINISHED CEMENT.

Process: F02 OPERATION OF FINISH MILL #2 DURING WHICH CEMENT CLINKER, SLAG, AND OTHER ADDITIVES ARE GROUND INTO FINISHED CEMENT.

Process: F03 OPERATION OF FINISH MILL #3 DURING WHICH CEMENT CLINKER, SLAG, AND ADDITIVES ARE GROUND INTO FINISHED CEMENT.

Process: FRP OPERATIONS OF THE ROLL PRESS TO FEED FINISH MILLS #1 AND #2.

Process: FTR TRANSFER OF CLINKER AND OTHER MATERIALS TO THE FACILITY'S FINISHING OPERATIONS WHICH CONSIST OF A ROLL PRESS AND THREE (3) FINISH MILLS. EMISSIONS FROM THESE OPERATIONS ARE INCLUDED IN THE CALCULATIONS FOR U-CLTRN.

Emission unit UQUARY - THIS EMISSION UNIT CONSISTS OF ALL OPERATIONS AND EQUIPMENT ASSOCIATED WITH THE FACILITY'S QUARRY. ASSOCIATED SOURCES AND EMISSION POINTS INCLUDE DRILLING/BLASTING, TRUCK LOADING/UNLOADING, STONE HAULING, STONE CRUSHING AND STONE TRANSFER OPERATIONS. EMISSIONS FROM SEVERAL PROCESSES WITHIN THE EMISSION UNIT, SUCH AS ROAD TRAFFIC AND STORAGE PILES HAVE BEEN CLASSIFIED AS 'INSIGNIFICANT' BASED ON THE REQUIREMENTS OF 6NYCRR PART 201-6.3(d)(7). SEE APPENDIX B FOR EMISSION INFORMATION.

Emission unit UQUARY is associated with the following emission points (EP):

Q0001, Q0002, Q003A

Process: Q01 DRILLING AND BLASTING OPERATIONS WITHIN THE FACILITY'S QUARRY.

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THESE OPERATIONS LOOSEN STONE FROM THE QUARRY WALLS FOR FURTHER PROCESSING (CRUSHING). EMISSIONS FROM THIS PROCESS ARE INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7). THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. A PORTION OF THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE.

Process: Q02 LOADING OF QUARRIED STONE INTO TRUCKS FOR TRANSPORT TO THE CRUSHER(S). THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. EMISSIONS FROM THIS PROCESS ARE INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7). THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE.

Process: Q03 EROSION OF STONE STORAGE PILES WITHIN THE QUARRY. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE.

Process: Q04 UNLOADING OF STONE TRUCKS WITHIN THE QUARRY. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: Q05 is located at Building PCRUSHER - OPERATION OF PRIMARY QUARRY CRUSHER.

Process: Q06 TRANSFER OF STONE FROM THE PRIMARY TO THE SECONDARY CRUSHER. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS FROM THIS PROCESS ARE FUGITIVE AND ARE INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: Q07 is located at Building SCRUSHER - OPERATION OF SECONDARY CRUSHER.

Process: Q08 TRANSFER OF STONE FROM SECONDARY CRUSHER TO THE MAIN PLANT. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: Q09 EROSION OF OPEN QUARRY AREAS. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE.

Process: Q10 TRANSFER AND STORAGE OF QUARRY OVERBURDEN. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: Q11 TRAFFIC ON THE QUARRY ROADS (PRIMARILY UNPAVED). THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE.

Emission unit URKILN - THIS EMISSION UNIT CONSISTS OF THE OPERATIONS AND EQUIPMENT INVOLVED IN THE PRODUCTION OF CEMENT CLINKER IN THE FACILITY'S ROTARY KILN. PROCESSES INCLUDE THE WEIGHING AND TRANSFER OF RAW FEED, OPERATION OF THE KILN, AND THE TRANSFER OF EXCESS CEMENT KILN DUST (PRODUCED BY THE PROCESS) FOR ON SITE STORAGE OR SALE. SEVERAL PROCESSES WITHIN THIS EMISSION UNIT HAVE BEEN DESIGNATED "INSIGNIFICANT" PER 6 NYCRR 201-6.3 (d) (7). SEE APPENDIX B FOR EMISSION INFORMATION.

Emission unit URKILN is associated with the following emission points (EP):

CC001, K0001, K0002, K0003, K005A

Process: K01 is located at Building KILN - TRANSFER OF RAW FEED (SLURRY) FROM THE SLURRY STORAGE TANKS TO THE KILN. DUE TO THE HIGH WATER CONTENT OF THE RAW FEED, EMISSIONS FROM THIS OPERATION ARE MINIMAL AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: K02 is located at Building KILN - OPERATION OF THE ROTARY KILN. WITHIN

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THE KILN THE RAW FEED IS PROCESSED INTO CEMENT CLINKER AT TEMPERATURES IN EXCESS OF 2000F COAL IS USED AS THE UNIT'S PRIMARY FUEL, WITH #2 OIL USED TO PREHEAT THE UNIT. WHOLE TIRES MAY BE USED AS A SUPPLEMENTAL FUEL.

Process: K03 is located at Building COOLER - OPERATION OF THE CLINKER COOLER, WHICH COOLS THE HOT CLINKER PRIOR TO TRANSFER TO STORAGE.

Process: K04 is located at Building KILN - COLLECTION OF CEMENT KILN DUST (PRODUCED DURING THE PRODUCTION OF CLINKER IN THE KILN) FOR FUTURE USE OR STORAGE.

Process: K05 is located at Building KILN - TRANSFER OF COLLECTED KILN DUST TO TRUCKS FOR SALE OR TRANSFER TO STORAGE. EMISSIONS FROM THIS PROCESS ARE INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: K06 THE FACILITY'S CEMENT KILN DUST LANDFILL. THE FACILITY IS PERMITTED FOR A MAXIMUM SIZE OF EIGHT ACRES. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE.

Process: K07 is located at Building KILN - OPERATION OF THE FACILITY'S ROTARY KILN USING WHOLE TIRES AS A SUPPLEMENTAL FUEL.

Emission unit URMHND - THIS EMISSION UNIT CONSISTS OF THE OPERATIONS AND EQUIPMENT INVOLVED IN THE TRANSFER, STORAGE AND HANDLING OF RAW MATERIALS (INCLUDING THE STONE REMOVED FROM THE FACILITY'S QUARRY). THESE MATERIALS ARE ALL SOLIDS AND MAY CONSIST OF IRON-BEARING MATERIALS, SILICA-BEARING MATERIALS, AND OTHER MATERIALS WHICH ARE SIMILAR IN CHEMICAL AND/OR PHYSICAL COMPOSITION.

Emission unit URMHND is associated with the following emission points (EP):

RC003, RC01A, RC02A

Process: R01 TRANSFER OF STONE FROM QUARRY BELT TO MAIN PLANT STORAGE PILE. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R02 EROSION OF THE MAIN PLANT STONE STORAGE PILE. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE.

Process: R03 TRANSFER OF STONE FROM THE MAIN PLANT STORAGE AREA TO THE TERTIARY CRUSHER. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R04 is located at Building TCRUSHER - OPERATION OF THE TERTIARY CRUSHER.

Process: R05 TRANSFER OF CRUSHED STONE TO THE STORAGE SILOS. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R06 is located at Building STSILOS - OPERATION OF STONE STORAGE SILOS. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R07 UNLOADING OF RAW MATERIALS IDENTIFIED AS "BUD (BENEFICIAL USE DETERMINATION) MATERIALS" PER NYCRR 360-1.15. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND

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INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R08 UNLOADING OF RAW MATERIALS NOT IDENTIFIED AS "BUD MATERIALS". THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R09 EROSION OF STORAGE PILES CONTAINING MATERIALS IDENTIFIED AS "BUD (BENEFICIAL USE DETERMINATION) MATERIALS" PER 6 NYCRR 360-1.15. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE.

Process: R10 EROSION OF STORAGE PILES CONTAINING MATERIALS IDENTIFIED AS "NON BUD MATERIALS". THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE.

Process: R11 TRANSFER OF RAW MATERIALS IDENTIFIED AS "BUD (BENEFICIAL USE DETERMINATION) MATERIALS" PER 6 NYCRR 360-1.15. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R12 TRANSFER OF RAW MATERIALS IDENTIFIED AS "NON BUD MATERIALS" PER 6 NYCRR 360-1.15. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6 (d) (7).

Process: R13 STORAGE OF MATERIALS IDENTIFIED AS "BUD (BENEFICIAL USE DETERMINATION) MATERIALS" PER 6 NYCRR 360-1.15. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R14 STORAGE OF MATERIALS IDENTIFIED AS "NON BUD MATERIALS". THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THE EMISSIONS ASSOCIATED WITH THIS PROCESS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R15 UNLOADING OF RAW MATERIALS IDENTIFIED AS "BUD (BENEFICIAL USE DETERMINATION) MATERIALS" PER 6 NYCRR 360-1.15 AT THE CEMENTON DOCK. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6

Process: R16 UNLOADING OF RAW MATERIALS IDENTIFIED AS "NON BUD MATERIALS" AT THE CEMENTON DOCK. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R17 EROSION OF STORAGE PILES AT THE CEMENTON DOCK COMPRISED OF MATERIAL IDENTIFIED AS "BUD (BENEFICIAL USE DETERMINATION) MATERIALS" PER 6 NYCRR 360-1.15. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R18 EROSION OF STORAGE PILES AT THE CEMENTON DOCK COMPRISED OF MATERIAL IDENTIFIED AS "NON BUD MATERIALS" PER 6 NYCRR 360-1.15. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: R19 TRAFFIC THROUGH THE MAIN PLANT AREA (BOTH PAVED AND UNPAVED ROADS). THESE EMISSIONS ARE FUGITIVE.

Emission unit USGDY - A NO.2 OIL-FIRED ROTARY SLAG DRYER WILL DRY GRANULATED BLAST FURNACE SLAG FROM APPROXIMATELY 17% TO 0.1% MOISTURE PRIOR TO PROCESSING. THE DRYER PROCESS RATE WILL BE APPROXIMATELY 75 DRY TONS PER HOUR. THE EMISSIONS FROM THE SLAG DRYER WILL BE DISCHARGED THROUGH A CYCLONE COLLECTOR FOLLOWED BY A FABRIC FILTER BAGHOUSE. THE DRYER IS



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EQUIPPED WITH 2 BURNERS EACH RATED AT 32 MMBTU PER HOUR HEAT INPUT LOCATED AT OPPOSITE ENDS OF THE DRYER (FOR A COMBINED TOTAL FUEL BURNING CAPACITY OF 457 GALLONS/HOUR) WITH EMISSIONS TAKEN OFF THE CENTER OF THE DRUM.

Emission unit USGDRY is associated with the following emission points (EP):

SD008, SD009, SD010, SD011, SD012, SD013

Process: CVR is located at 300 FT W OF KILN& CH - THESE PROCESSES INCLUDE THE SHIP UNLOADING TO THE SLAG STORAGE STAGING AREA, STORAGE PILES, TRUCK AND FRONT END LOADER ROAD DUST, SLAG FEED HOPPER AND THE BELT CONVEYORS THAT MOVE THE WET METAL SLAG THROUGH THE LUMP BREAKER TO THE ROTARY SLAG DRYER. THIS PROCESS ALSO INCLUDES THE BUCKET ELEVATOR AND BELT CONVEYOR SYSTEM THAT MOVES THE DRIED SLAG TO THE CLINKER HALL FOR BLENDING WITH CLINKER AND OTHER ADDITIVES. THESE SOURCES ARE FUGITIVE EMISSIONS AND INCLUDE EMISSION POINTS SF001 THROUGH SF007.

Process: DRY THE OIL-FIRED ROTARY SLAG DRYER WILL DRY WET METAL SLAG THAT IS DELIVERED TO THE FACILITY. THE UNIT IS RATED AT A WET SLAG THROUGHPUT OF 90 TONS PER HOUR FEED WITH AN ANTICIPATED DRIED SLAG OUTPUT OF NOMINALLY 75 TONS PER HOUR. TWO OPPOSING BURNERS INSTALLED ON THE ENDS OF THE DRYER ARE EACH RATED TO FIRE 32 MMBTU PER HOUR. THE DISCHARGE FROM THE ROTARY DRYER WILL PASS THROUGH A PRE-CLEANING CYCLONE FOLLOWED BY A FABRIC FILTER BAGHOUSE WITH A COMBINED PARTICULATE REMOVAL OF 99.9% OR BETTER. THE AIR CLEANING SYSTEM IS DESIGNED TO EASILY ACCOMMODATE AN AIR FLOW OF 55000 DSCFM WHICH WILL DISCHARGE TO EMISSION POINT SD008. THE TWO BURNERS HAVE A COMBINED RATED BURNING CAPACITY OF 457 GALLONS PER HOUR. FUEL USE WILL BE USED TO LIMIT THE HOURS OF OPERATION TO KEEP SO<sub>2</sub> EMISSIONS BELOW THE PSD TRIGGERING THRESHOLD OF 40 TONS. A 0.2% SULFUR LIMIT WILL BE TAKEN ON ALL #2 OIL FIRED IN THIS UNIT.

Emission unit USHPNG - THIS EMISSION UNIT CONSISTS OF THE OPERATIONS AND EQUIPMENT INVOLVED IN THE TRANSFER, STORAGE, PACKAGING, AND SHIPPING OF FINISHED PRODUCT. FINISHED PRODUCT MAY BE SHIPPED VIA RAILCAR, TRUCKS, MARINE VESSEL OR PACKAGED BY THE FACILITY'S BAGGING EQUIPMENT. CEMENT MAY ALSO BE DELIVERED TO THE FACILITY VIA MARINE VESSEL AND TRANSFERRED TO STORAGE TO AWAIT SHIPMENT. ONE OF THE PROCESSES IN THIS EMISSION UNIT HAS BEEN DESIGNATED AS "INSIGNIFICANT" PER NYCRR 201-6.3(d)(7).

Emission unit USHPNG is associated with the following emission points (EP):

BL001, BL002, NS001, NS002, NS003, NS004, NS005, NS006, NS007, NS008, NS009, NS010, NS011, NS012, NS013, NS014, NS015, NS016, NS017, NS01A, OS001, OS002, OS003, OS004, OS005, OS006, OS007, OS008, PH001, PH002, PH003, PH004

Process: S01 is located at Building NEWSILOS - OPERATION OF THE FACILITY'S EAST NEW STORAGE SILOS. OPERATIONS INCLUDE FILLING, EMPTYING, AND INTER SILO TRANSFERS OF FINISHED PRODUCT.

Process: S02 is located at Building NEWSILOS - OPERATION OF FACILITY'S WEST NEW STORAGE SILOS. OPERATION INCLUDE FILLING, EMPTYING, AND INTER-SILO TRANSFERS OF FINISHED PRODUCT.

Process: S03 is located at Building OLDSILOS - OPERATION OF THE FACILITY'S OLD STORAGE SILOS. OPERATIONS INCLUDE FILLING, EMPTYING, AND INTER SILO TRANSFERS OF FINISHED PRODUCT.

Process: S04 is located at Building PACKHOUSE - OPERATION OF THE FACILITY'S PACKAGING MACHINES (3 TOTAL). THE FINISHED PRODUCT (CEMENT) IS PLACED IN BAGS FOR



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**SHIPMENT AND SALE.**

Process: S05 is located at Building NEWSILOS - TRANSFER OF FINISHED PRODUCT (CEMENT) FROM THE EAST AND WEST SILOS INTO TRUCKS AND/OR RAILCARS FOR BULK SHIPMENTS.

Process: S06 is located at Building OLDSILOS - TRANSFER OF FINISHED PRODUCT (CEMENT) FROM THE OLD SILOS INTO TRUCKS AND/OR RAILCARS FOR BULK SHIPMENT.

Process: S07 OPERATIONS OF THE PACKHOUSE PALLETIZER AND BAG FLATTENING MACHINES, USED IN CONJUNCTION WITH THE PRODUCT BAGGING EQUIPMENT. EMISSIONS FROM THIS OPERATION ARE INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: S08 is located at Building MARINELOAD - OPERATION OF THE SURGE BIN IN ASSOCIATION WITH THE LOADING/UNLOADING OF FINISHED PRODUCT (CEMENT) FROM MARINE VESSELS.

Process: S09 is located at Building MARINELOAD - TRANSFER OF FINISHED PRODUCT (CEMENT) TO AND FROM MARINE VESSELS FROM THE SURGE BIN.

Emission unit USOLID - THIS EMISSION UNIT CONSISTS OF THE EQUIPMENT AND OPERATIONS INVOLVED IN THE STORAGE, TRANSFER, AND PREPARATION OF COAL (OR OTHER SOLID MATERIALS) FOR USE IN, OR STORAGE AT THE FACILITY. PROCESSES INCLUDE MATERIAL UNLOADING, LOADING, HAULING AND PREPARATION OF THE MATERIALS (BY CRUSHING) FOR USE. SEVERAL PROCESSES WITHIN THIS EMISSION UNIT HAVE BEEN DESIGNATED "INSIGNIFICANT" PER 6 NYCRR 201-6.3 (d) (7). SEE APPENDIX B FOR EMISSION INFORMATION.

Emission unit USOLID is associated with the following emission points (EP):

C001A

Process: SF1 UNLOADING OF COAL AND OTHER SOLID MATERIAL (FROM TRUCK, RAIL AND MARINE VESSELS) TO STORAGE. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: SF2 WIND EROSION OF COAL AND OTHER SOLID MATERIAL STORAGE PILES AND AREAS. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: SF3 TRANSFER OF COAL FROM THE COAL AND OTHER SOLID MATERIAL STORAGE PILES TO THE FEED HOPPER. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: SF4 TRANSFER OF COAL FROM THE FEED HOPPER TO THE COAL MILL. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: SF5 is located at Building KILN - OPERATION OF THE COAL MILL AND TRANSFER OF THE CRUSHED FUEL INTO THE KILN. THE UNIT OPERATES UNDER NEGATIVE PRESSURE; ITS EMISSIONS ARE INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

Process: SF6 UNLOADING, STORAGE, AND TRANSFER OF WHOLE TIRES USED AS A SUPPLEMENTAL FUEL FOR THE KILN. THROUGHPUT INFORMATION IS NOT REQUIRED TO DETERMINE COMPLIANCE. THESE EMISSIONS ARE FUGITIVE AND INSIGNIFICANT PER 6 NYCRR 201-6.3 (d) (7).

**Title V/Major Source Status**

LEHIGH NORTHEAST CEMENT CO - CEMENTON TERMINAL is subject to Title V requirements.

This determination is based on the following information:

The facility is major for PM-10.



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**Program Applicability**

The following chart summarizes the applicability of LEHIGH NORTHEAST CEMENT CO - CEMENTON TERMINAL with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	YES
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	NO
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	NO
SIP	YES

**NOTES:**

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

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

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

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

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



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the regulation.

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

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

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

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

**Compliance Status**

Facility is in compliance with all requirements.

**SIC Codes**

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

**SIC Code**

**Description**

3241  
4491

CEMENT, HYDRAULIC  
MARINE CARGO HANDLING

**SCC Codes**

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information.Each SCC represents

a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

**SCC Code**

**Description**

3-05-006-12

MINERAL PRODUCTS  
MINERAL PRODUCTS - CEMENT MANUFACTURE (DRY PROCESS)

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3-05-006-13	Raw Material Transfer MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (DRY PROCESS)
3-05-006-16	Raw Material Grinding and Drying MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (DRY PROCESS)
3-05-007-06	Clinker Transfer MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-07	Kilns MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-08	Raw Material Unloading MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-09	Raw Material Piles MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-10	Primary Crushing MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-12	Secondary Crushing MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-14	Raw Material Transfer MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-15	Clinker Cooler MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-16	Clinker Piles MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-17	Clinker Transfer MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-18	Clinker Grinding MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-19	CEMENT SILOS MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-007-99	Cement Load Out MINERAL PRODUCTS MINERAL PRODUCTS - CEMENT MANUFACTURE (WET PROCESS)
3-05-010-43	Other Not Classified MINERAL PRODUCTS COAL MINING, CLEANING & MATL HANDLING (SEE 3-05-310 FOR DIFF UNITS)



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3-05-010-99	Open Storage Pile: Coal MINERAL PRODUCTS COAL MINING, CLEANING & MATL HANDLING (SEE 3-05-310 FOR DIFF UNITS)
3-05-020-09	Other Not Classified MINERAL PRODUCTS STONE QUARRYING-PROCESSING (SEE ALSO 3-05- 320 FOR DIFFERENT UNITS) Blasting: General

**Facility Emissions Summary**

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

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
000630-08-0	CARBON MONOXIDE	13713	
0NY100-00-0	HAP		> 0 but < 2.5 tpy
007439-92-1	LEAD		> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	54852	
0NY075-00-0	PARTICULATES		>= 250 tpy but < 75,000 tpy
0NY075-00-5	PM-10		>= 250 tpy but < 75,000 tpy
007446-09-5	SULFUR DIOXIDE	77889	
0NY998-00-0	VOC		> 0 but < 2.5 tpy

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

- (1) An emergency occurred and that the facility owner and/or operator can

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identify the cause(s) of the emergency;

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

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

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

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

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

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

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

**Item C: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.3(a)(4)**

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

**Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)**

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

**Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)**

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

**Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)**

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

**Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.5(a)(5)**



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

**Item H: Property Rights - 6 NYCRR 201-6.5(a)(6)**

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

**Item I: Severability - 6 NYCRR Part 201-6.5(a)(9)**

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

**Item J: Permit Shield - 6 NYCRR Part 201-6.5(g)**

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

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

**Item K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)**

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a



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material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

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

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

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

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

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

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

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

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

**Regulatory Analysis**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Regulation</b>	<b>Condition</b>	<b>Short Description</b>
-- FACILITY	ECL 19-0301	44	Powers and Duties of the Department with respect to air pollution control
U-SGDRY	40CFR 52-A.21	41, 42	Prevention of Significant Deterioration
FACILITY	40CFR 52-A.21(j)(2)	30	Best Available Control Technology (BACT) (see narrative)
U-CLTRN/-/CLH/CHALL	40CFR 52-A.21(j)(2)	37	Best Available Control Technology (BACT) (see narrative)
U-CLTRN/-/ULD/CLTRU	40CFR 52-A.21(j)(2)	38	Best Available Control Technology (BACT) (see narrative)
U-SGDRY	40CFR 52-A.21(j)(2)	43	Best Available Control Technology (BACT) (see narrative)
FACILITY	40CFR 64	31, 32	COMPLIANCE ASSURANCE MONITORING
FACILITY	40CFR 68	20	Chemical accident prevention provisions
FACILITY	40CFR 82-F	21	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	45	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13	Exempt Activities -

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FACILITY	6NYCRR 201-6	22, 33, 34	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6.5 (a) (4)	15	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5 (a) (7)	2	General conditions
FACILITY	6NYCRR 201-6.5 (a) (8)	16	General conditions
FACILITY	6NYCRR 201-6.5 (c)	3	Fees
FACILITY	6NYCRR 201-6.5 (c) (2)	4	General conditions
FACILITY	6NYCRR 201- 6.5 (c) (3) (ii)	5	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (d) (5)	17	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (e)	6	Compliance schedules
FACILITY	6NYCRR 201-6.5 (f) (6)	18	Compliance Certification
FACILITY	6NYCRR 201-7	23, 35, 36	Off Permit Changes
U-SGDRY	6NYCRR 201-7	41, 42	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.1	19	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.2	24	Required emissions tests.
FACILITY	6NYCRR 202-1.3	25	Notification.
FACILITY	6NYCRR 202-2.1	7	Acceptable procedures.
FACILITY	6NYCRR 202-2.5	8	Emission Statements - Applicability
FACILITY	6NYCRR 211.1	26, 27	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	46, 47	General Prohibitions - air pollution prohibited
U-FINML/-/F01	6NYCRR 212.3 (b)	39	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 212.6 (a)	28, 29	General Process Emission Sources - emissions from existing emission sources
FACILITY	6NYCRR 215.2	9	General Process Emission Sources - opacity of emissions limited
U-RKILN	6NYCRR 231-2.6 (a) (7)	40	Open Fires - Prohibitions Certification issuance

**Applicability Discussion:**

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



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ECL 19-0301

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

6 NYCRR 200.6

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

6 NYCRR 200.7

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

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR 201-3.3 (a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR Subpart 201-6

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

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6 NYCRR 201-6.5 (a) (4)

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

6 NYCRR 201-6.5 (a) (7)

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

6 NYCRR 201-6.5 (a) (8)

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

6 NYCRR 201-6.5 (c)

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

6 NYCRR 201-6.5 (c) (2)

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

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

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

6 NYCRR 201-6.5 (d) (5)

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

6 NYCRR 201-6.5 (e)

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

6 NYCRR 201-6.5 (f) (6)

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



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6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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

6 NYCRR 202-2.5

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

6 NYCRR 211.2

This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2

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

40 CFR Part 68

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

40 CFR Part 82, Subpart F

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

**Facility Specific Requirements**

In addition to Title V, LEHIGH NORTHEAST CEMENT CO - CEMENTON TERMINAL has been determined to be subject to the following regulations:

40 CFR 52.21

This citation applies to facilities that are subject to Prevention of Significant Deterioration provisions;

ie: facilities that are located in an attainment area and that emit pollutants which are listed in 40 CFR 52.21(b)(23)(i) .

40 CFR 52.21 (j) (2)

BACT determinations are made on a case-by-case basis and can be no less stringent than any



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requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination will have to be entered into the special permit conditions, separately by the permit reviewer.

40 CFR Part 64

The federal Compliance Assurance Monitoring (CAM) rule, 40 CFR Part 64, requires monitoring of control device, capture system, and/or process parameters to provide a reasonable assurance of compliance with emission limitations or standards. It applies to emission units that use a control device to comply with certain standards and limitations and that have potential pre-control device emissions equal to or greater than a major source threshold.

Acid Rain program requirements; stratospheric ozone protection requirements; post-1990 New Source Performance Standards, Emission Guidelines, and National Emission Standards for Hazardous Air Pollutants; and some other limitations are exempt from CAM. However, many of the exempt requirements are subject to less stringent periodic monitoring under 40 CFR Part 70 and 6NYCRR Subpart 201-6.

6 NYCRR 202-1.2

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

6 NYCRR 202-1.3

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

6 NYCRR 211.1

This regulation requires that no person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property.

6 NYCRR 212.3 (b)

This rule requires existing sources (in operation on or before July 1, 1973) of solid particulates with environmental rating of B or C which are not subject to Table 5 "Processes for which Permissible Emission Rate is Based on Process Weight, to be limited to an particulate emission rate not to exceed 0.15 grains per dry standard cubic foot.

6 NYCRR 212.6 (a)

This rule specifies an opacity limitation of less than 20% for any six consecutive minute period for all process emission sources.

6 NYCRR 231-2.6 (a) (7)

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is



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located in the ozone transport region and because there are ozone non-attainment areas within the state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

The requirements and criteria for creating and certifying emission reduction credits (ERCs) are set forth in section 231-2.6. The NYSDEC will issue certificates for the ERCs that are certified.

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is

**Compliance Certification**

**Summary of monitoring activities at LEHIGH NORTHEAST CEMENT CO - CEMENTON TERMINAL:**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
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FACILITY	30	intermittent emission testing
U-CLTRN/-/CLH/CHALL	37	record keeping/maintenance procedures
U-CLTRN/-/ULD/CLTRU	38	intermittent emission testing
U-SGDRY	43	intermittent emission testing
FACILITY	31	record keeping/maintenance procedures
FACILITY	32	intermittent emission testing
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
U-SGDRY	41	work practice involving specific operations
U-SGDRY	42	monitoring of process or control device parameters as surrogate
FACILITY	7	record keeping/maintenance procedures
FACILITY	47	record keeping/maintenance procedures
U-FINML/-/F01	39	intermittent emission testing
FACILITY	28	intermittent emission testing
FACILITY	29	intermittent emission testing
U-RKILN	40	record keeping/maintenance procedures

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**Basis for Monitoring**

Monitoring conditions in this permit are of 4 types:

1. Permit conditions with “ntermittent emission testing” this type of monitoring involves the direct measurement of contaminant (or surrogate contaminant) emissions from an emission point on a periodic basis. If finish mill 3 is started up, a stack test to check for compliance with the 0.01 grain/dry standard cubic foot (dscf) BACT (attainment New Source Review (PSD)) limit and a 3 hour opacity check are required; this is intermittent emission testing. When the truck/rail unloading point is completed, a stack test to check for compliance with the 0.01 grain/dscf BACT (PSD) limit and a 3 hour opacity check are required; this is intermittent emission testing. Finally, the daily 6-minute Method 22 observation of the finish mills and roll press is intermittent emission testing



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2. Permit conditions with “onitoring of process or control device parameters as surrogate” this type of monitoring involves the indirect measurement of emissions via monitoring of process or control device parameters and performance on a continuous or periodic basis. The 0.2% sulfur limit (this time, to avoid PSD) for the fuel oil used in the slag dryer is this type of monitoring.

3. Permit conditions with “ork practices involving specific operations” this type of monitoring involves activities where time of operation, thru put of product, thru put of raw material, or parameter of a process material thru put is being measured and represents an operating limit. The 6,000 hour/year limit (to avoid PSD) for the slag dryer is this type of monitoring.

4. Permit conditions with “ecord keeping/maintenance procedures” this type of monitoring refers to activities involving the upkeep of records to demonstrate compliance with a requirement or the application of maintenance procedures which may be necessary to maintain acceptable operations. The daily opacity check of all emission points (this includes the slag dryer; the nuisance dust collector; the 2 silos in the upper plant area; ship, rail and truck loading; cement bagging; and the air pollution control devices for 37 silos) and compliance with the Fugitive Dust Control Program are this type of monitoring (although they possibly could also be called intermittent emission testing).