New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 9-2930-00032/00263
Renewal Number: 3
08/17/2015

Facility Identification Data
Name: TAM CERAMICS LLC
Address: 4511 HYDE PARK BLVD
NIAGARA FALLS, NY 14305-0067

Owner/Firm
Name: TAM CERAMICS GROUP OF NY LLC
Address: 4511 HYDE PARK BLVD
NIAGARA FALLS, NY 14305, USA
Owner Classification: Corporation/Partnership

Permit Contacts
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YOUNGSTOWN, NY 14174
Phone:

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
This permit application represents a Title V renewal for TAM Ceramics located in Niagara Falls, New York. TAM Ceramics is a manufacturer of Zircon flour, Milled Zircon, Monoclinic and Stabilized Zirconia, Milled Rutile, fumed silica and Titanates.
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

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* 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:
This facility produces ceramic materials for resale and use in other forms of manufacturing. The processes employed include arc furnacing, milling, calcining, and mixing. The primary products are high purity zirconia (zirconium oxide) and zirconium silicate, titanium oxide, sodium titanate, potassium titanate, calcium carbide with silicates, silicates with fluorides, and aluminum oxides.

Permit Structure and Description of Operations
The Title V permit for TAM CERAMICS LLC 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.
TAM CERAMICS LLC is defined by the following emission unit(s):

Emission unit 000003 - Calcined and uncalcined materials are milled (8 x 12 mill) and discharged for pack out or sent on for further processing.

Emission unit 000003 is associated with the following emission points (EP):
00301
Process: C01 is located at FIRST FLOOR, Building 0000000123 - Generated dust from the mechanical 8 x 10 dry mill and the associated material handling system is exhausted to a baghouse(emission point 00301).

Emission unit 000004 - Raw materials consisting of rutile, soda ash and pot ash are mixed and fed through the PT calciner, milled, classified and screened for final pack out.

Emission unit 000004 is associated with the following emission points (EP):
00401, 00402
Process: D01 is located at FIRST FLOOR, Building 0000000017 - Gas fired rotary PT calciner in building 17. Various powders are fed into the calciner, then passing through a cooler and on to further processing. Emissions associated with natural gas combustion by products, along with dust generated during mixing, calcining, cooling and material handling are exhausted to a cyclone and then to a baghouse(emission point 00401).

Process: D02 is located at FIRST FLOOR, Building 0000000017 - Mechanical dry milling, classifying system, pack-out and associated materials handling equipment. Generated dust is exhausted to a baghouse(emission point 00402).

Emission unit 000006 - This emission unit includes those processes and equipment associated with mixing, milling, calcining, drying, blending, screening and associated material handling equipment leading to final packout.

Emission unit 000006 is associated with the following emission points (EP):
00601, 00602, 00603, 00604, 00606, 00607, 00608, 00609, 00610, 00611, 00612, 00613, 00614, 00617, 00618, 00619, 00620, 00621, 00622, 00624, 00631, 00635, 00637, 00638
Process: F01 is located at FIRST FLOOR, Building 0000000002 - A slurry of raw material is fed into a gas fired 6 x 50 rotary calciner located in Building 2. After calcining, the material passes through a water cooled cooler and on to furthur processing. Natural gas combustion by-products and generated dust are exhausted via natural draft through a settling chamber and to emission point 00601. Dust generated during cooling and material transfer to discharge hopper is directed to a baghouse(emission point 00613).

Process: F02 is located at FIRST FLOOR, Building 0000000002 - A slurry of raw material is fed into a gas fired 6 x 60 rotary calciner located in Building 2. After calcining, the material passes through a water cooled cooler and on to furthur processing. Natural gas combustion by-products and generated dust are exhausted via natural draft through a settling chamber and to emission point 00602. Dust generated during cooling and material transfer to discharge hopper is directed to a baghouse(emission point 00614).

Process: F03 is located at FIRST FLOOR, Building 0000000002 - Material handling system associated
with a belt dryer. The material handling system includes grinding equipment used for size reduction prior to final transfer of the material from the system. Dust generated from the system is exhausted to a baghouse. The product collector (Torit baghouse) discharges to emission point 00603.

Process: F04 is located at FIRST FLOOR, Building 0000000002 - Material handling system associated with a twin drum dryer includes grinding equipment used for size reduction prior to final transfer of the material from the system. Dust generated from the system is exhausted to a baghouse. The product collector (Torit baghouse) discharges to emission point 00604.

Process: F06 is located at FIRST FLOOR, Building 0000000147 - Material is fed into the 20" jet mill located in Building 147 and ground to a very fine particle size using high pressure air. Ground material is discharged directly into a product collector (baghouse) which discharges product into a hopper. Emissions are vented through the baghouse to emission point 00606.

Process: F07 is located at FIRST FLOOR, Building 0000000002 - Dust generated from the pulverizer (hammer mill) and associated material handling equipment located in Building 2 is exhausted to a baghouse and emission point 00607.

Process: F08 is located at FIRST FLOOR, Building 0000000147 - A 20" jet mill located in Building 147. Material is fed into the mill and ground to a very fine particle size using high pressure air. Ground material is discharged directly into a product collector (baghouse) which discharges product into a hopper. Emissions from the jet mill are vented through the baghouse product collector to emission point 00608.

Process: F09 is located at FIRST FLOOR, Building 0000000147 - A 20" jet mill located in Building 147. Material is fed into the mill and ground to a very fine particle size using high pressure air. Ground material is discharged directly into a product collector (baghouse) which discharges product into a hopper. Emissions from the jet mill are vented through the baghouse product collector to the atmosphere thru emission point 00609.

Process: F10 is located at FIRST FLOOR, Building 0000000147 - Discharge hoppers for four jet mills located in Building 147. Material discharged from the product collector is dropped into a hopper. Dust generated from transfer of jet-milled material into each hopper is exhausted to a single baghouse (emission point 00610).

Process: F11 is located at FIRST FLOOR, Building 0000000147 - Dust generated the filling and discharging of material from two P-K blenders located in Building 147 is exhausted to a single baghouse(emission point 00610).

Process: F12 is located at FIRST FLOOR, Building 0000000002 - A 24" jet mill located in Building 2. Material is fed into the mill and ground to a very fine particle size using high pressure air. Ground material is discharged directly into a product collector (baghouse) which discharges product into a hopper. Emissions from the jet mill are vented through the baghouse product collector (emission point 00611).

Process: F13 is located at FIRST FLOOR, Building 0000000147 - A 20" jet mill located in Building 147. Material is fed into the mill and ground to a very fine particle size using high pressure air. Ground material is discharged directly into a product collector (baghouse) which discharges product into a hopper. Emissions from the jet mill are vented through the baghouse product collector to emission point(00612).

Process: F16 is located at FIRST FLOOR, Building 0000000002 - A local exhaust used to control dust generated during weighing of discharge product hoppers is exhausted to a baghouse (EP 00614).
Process: F17 is located at FIRST FLOOR, Building 000000002 - Exhaust fan for control of dust during a batch mixing operation associated with the 6 x 60 calciner located in building 2. Material and a small volume of water is added to mix tank #2 and the blended material is conveyed directly to the calciner. Generated dust is exhausted directly to the atmosphere (EP 00618).

Process: F18 is located at FIRST FLOOR, Building 000000002 - Dust generated from the addition of solid material to mix tank #3 is exhausted to a fabric filter exhausted inside.

Process: F20 is located at FIRST FLOOR, Building 0000000163 - Three granulators are used to break apart clumped ceramic material as part of the sagger (small ceramic containers) loading process. Dust generated from the granulation process and sagger loading is exhausted to a baghouse (emission point 00619).

Process: F21 is located at FIRST FLOOR, Building 000000002 - Cone blender. No emissions are generated during blending. Dust generated during filling and discharge (pack-out) is exhausted to baghouses, emission points 00621(fill) and 00620(discharge).

Process: F26 is located at FIRST FLOOR, Building 000000002 - Dust generated during the milling and blending of material and discharged into a hopper is exhausted to a baghouse and then to emission point 00624. Process equipment consists of a 24” jet mill #6, cone blender, and pulverizer (hammer mill).

Process: F32 is located at FIRST FLOOR, Building 000000002 - Two electrically heated Harper kilns used to calcine ceramic materials. Dust and moisture generated during the calcining process are exhausted from each kiln to a baghouse and to emission point 00626.

Process: F37 is located at First floor, Building 000000002 - Process associated with the 6x60 and 6x50 calciner feed systems which discharge dust from the calciner feed into a baghouse and to emission point 00631.

Process: F39 is located at First Floor, Building 000000002 - A 24” Jet Mill #6 located in Building 2. Material is fed into the mill and ground to a very fine particle size using high pressure air. Ground material is discharged directly into a product collector (baghouse) which discharges into a hopper. Emissions from the jet mill are vented through the product collector (baghouse) to emission point 00635.

Process: F41 is located at First Floor, Building 000000002 - Material is dumped into a small Hockmeyer mixing tank for blending and subsequent processing in the Netszch Mills. Dust generated during the loading of the tank is exhausted to a baghouse and then to emission point 00637.

Process: F42 is located at First Floor, Building 000000002 - Dried trays of material from the Quincy dryers are dumped into a hopper for further processing. The dust generated from the tray dumping operation is exhausted to a baghouse and emission point 00637.

Process: F43 is located at Building 000000002 - The batch weigh DC process consists of a material blending system and associated material handling equipment consisting of two weigh pods, two bench scales and two mix tanks. Dust generated from the blending process and material handling equipment is exhausted to two similar baghouses in series and to emission point 00638.

Emission unit 000002 - Calcined and uncalcined materials are fed into a series of furnaces, heated into a slagged material, crushed, screened, and fed through a second stage calciner, screened, blended,
pulverized and discharged for final product pack-out.

Emission unit 000002 is associated with the following emission points (EP): 00201, 00202, 00203, 00204, 00205, 00206, 00207, 00208, 00209, 00210, 00211, 00212, 00213, 00214, 00215, 00216, 00222

Process: B01 is located at FIRST FLOOR, Building 0000000162 - Three high temperature submersion carbon electric arc furnaces (#9, #10, & # 11) used for the smelting of zirconium silicate into high purity zircon. Amorphous silica fume dust (SiO2) is released as a result of the smelting operation. Emissions from the three furnaces are exhausted to a single baghouse and then to the atmosphere thru emission point 00201. Collected silica is primarily sold for off-site re-use.

Process: B02 is located at FIRST FLOOR, Building 0000000137 - Rotary gas fired 7 x 40 calciner. Emissions associated with natural gas combustion by products, along with dust generated during calcining, cooling of calcined material, and materials handling equipment and associated storage bins is exhausted through a gravity settling chamber and then to a baghouse(emission point 00202).

Process: B03 is located at FIRST FLOOR, Building 0000000143 - Rotary gas fired 6 x 60 calciner and associated cooling system. Emissions associated with natural gas combustion by products along with generated dust are exhausted to a cyclone and through emission point 00203.

Process: B04 is located at FIRST FLOOR, Building 0000000143 - Organics volatilized during the carbon furnace bottom bake out process are exhausted through the calciner and associated cyclone and emission point 00203. No emissions control is provided by the cyclone. The calciner is not required to be operational during the furnace bake out process.

Process: B05 is located at FIRST FLOOR, Building 0000000115 - A single three-phase high temperature carbon arc furnace used for the smelting of zirconium silicate. Amorphous silica (SiO2) is released from the process. Emissions from the furnace are exhausted to a baghouse (emission point 00204) for collection of generated silica and emissions control. This furnace is used primarily for Research & Development.

Process: B06 is located at FIRST FLOOR, Building 0000000143 - Dust generated from the pulverizer (hammer mill) and associated materials handling system is exhausted to a baghouse (emission point 00205).

Process: B07 is located at FIRST FLOOR, Building 0000000123 - Mechanical dry mill and associated material handling system. Generated dust is exhausted to a baghouse (emission point 206).

Process: B08 is located at FIRST FLOOR, Building 0000000143 - Generated dust from the mechanical 8 x 8 dry mill and associated material handling systems is exhausted to a baghouse(emission point 00207).

Process: B09 is located at FIRST FLOOR, Building 0000000111 - Generated dust from the crushing/screening system in Building 11 used for size reduction and associated materials handling system is exhausted to a baghouse(emption point 00208).

Process: B10 is located at FIRST FLOOR, Building 0000000111 - Crushing/screening system in Building 11 used for size reduction and associated materials handling system. Generated dust from crushers, screens, and material handling equipment is exhausted to a baghouse(emission point 00209).

Process: B11 is located at FIRST FLOOR, Building 0000000008 - Generated dust from the
crushing/screening system in Building 8 used for size reduction and associated materials handling system is exhausted to a baghouse(emission point 00210).

Process: B12 is located at FIRST FLOOR, Building 0000000143 - Dusts generated from the materials handling system associated with the transfer into and from storage bins and associated with the transfer to the 6 x 60 calciner located in Building 143 are exhausted to a baghouse. It also includes a blending system for materials prior to discharge into the calciner(emission point 00211).

Process: B13 is located at FIRST FLOOR, Building 0000000018 - Dust generated from the materials blending system and associated materials handling equipment located in Building 18 is exhausted to a baghouse(emission point 00212).

Process: B14 is located at FIRST FLOOR, Building 0000000008 - Dust generated from the secondary screening system (Derrick screen), materials blending, and associated materials handling equipment operated in conjunction with a crushing/screening system (process B09) is exhausted to a baghouse(emission point 00213). Located in Building 8.

Process: B16 is located at FIRST FLOOR, Building 0000000008 - Two magnetic separators used to separate magnetic and non magnetic materials as part of the ceramics processing operation. Dust generated as a result of material transfers in the process is exhausted to a baghouse emission point 00213.

Process: B17 is located at FIRST FLOOR, Building 0000000145 - Crushing/screening system for furnace slag. Large pieces of slag are crushed and screened as part of the initial size reduction processing of the material. Generated dust associated with the crushing, screening, and material handling systems is exhausted through two similar baghouses (emission points 00214 and 00215).

Process: B21 is located at Building 0000000134 - Magnetic separator for a material drying/mixing system. Generated dust is exhausted to two similar baghouses emission point 00216.

Process: B23 is located at Building 0000000134 - Process consists of a screening system (Derrick Screen) used for the size reduction of material. Dust is exhausted to a baghouse.

Process: B24 is located at Building 0000000134 - This process consists of a material blending system used to dry wet material (sand and processed zirconia tailings) by rotating a former concrete mix tank. The material dries by friction. Generated dust from the loading and discharge of the material is exhausted to two similar baghouses.

Process: B25 is located at Building 0000000127 -

Emission unit 000005 - Uncalcined materials are dry milled, mixed with water to form a slurry, then fed through a series of wet mills and holding tanks. The slurry is then calcined, milled and screened for the final product which is discharged for final packout.

Emission unit 000005 is associated with the following emission points (EP): 00501, 00502, 00503

Process: E01 is located at FIRST FLOOR, Building 0000000008 - Gas fired rotary calciner (7 X 70) and associated cooling system. Emissions of particulates, sulfur dioxide, nitrogen oxides and carbon monoxide associated with natural gas combustion by-products along with generated dust are exhausted via natural draft through a settling chamber and into the atmosphere thru emission point 00501.
Process: E02 is located at FIRST FLOOR, Building 0000000008 - Dust from the mechanical 8 x 8 dry to a baghouse and to atmosphere thru emission point 00502.

Process: E03 is located at FIRST FLOOR, Building 0000000013 - Particulates from the mechanical 7 x 10 dry mill and material handling system located in Building 13 is exhausted to a baghouse and to atmosphere thru emission point 00503.

**Title V/Major Source Status**

TAM CERAMICS LLC is subject to Title V requirements. This determination is based on the following information:
The permittee is a major source of particulate and nitrogen oxides subject to 40 CFR Title V permitting requirements as determined by the potential to emit 6796 tons per year of particulate matter, 4479 tons per year of PM-10, and 379 tons per year of nitrogen oxides. Stack testing has been performed on various representative processes in order to develop emission factors which were used in conjunction with production rates in the completion of this Title V permit.

**Program Applicability**
The following chart summarizes the applicability of TAM CERAMICS LLC with regards to the principal air pollution regulatory programs:

<table>
<thead>
<tr>
<th>Regulatory Program</th>
<th>Applicability</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSD</td>
<td>NO</td>
</tr>
<tr>
<td>NSR (non-attainment)</td>
<td>NO</td>
</tr>
<tr>
<td>NESHAP (40 CFR Part 61)</td>
<td>NO</td>
</tr>
<tr>
<td>NESHAP (MACT - 40 CFR Part 63)</td>
<td>NO</td>
</tr>
<tr>
<td>NSPS</td>
<td>NO</td>
</tr>
<tr>
<td>TITLE IV</td>
<td>NO</td>
</tr>
<tr>
<td>TITLE V</td>
<td>YES</td>
</tr>
<tr>
<td>TITLE VI</td>
<td>NO</td>
</tr>
<tr>
<td>RACT</td>
<td>NO</td>
</tr>
<tr>
<td>SIP</td>
<td>YES</td>
</tr>
</tbody>
</table>

**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 (CAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP’s).

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>SIC Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>3295</td>
<td>MINERALS, GROUND OR TREATED</td>
</tr>
<tr>
<td>3297</td>
<td>NONCLAY REFRACTORIES</td>
</tr>
<tr>
<td>3299</td>
<td>NONMETALLIC MINERAL PRODUCTS</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>SCC Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-05-150-01</td>
<td>MINERAL PRODUCTS</td>
</tr>
<tr>
<td></td>
<td>MINERAL PRODUCTS - CALCINING</td>
</tr>
<tr>
<td></td>
<td>Raw Material Handling</td>
</tr>
<tr>
<td>3-05-150-02</td>
<td>MINERAL PRODUCTS</td>
</tr>
<tr>
<td></td>
<td>MINERAL PRODUCTS - CALCINING</td>
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<tr>
<td></td>
<td>General</td>
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<tr>
<td>3-05-150-03</td>
<td>MINERAL PRODUCTS</td>
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<tr>
<td></td>
<td>MINERAL PRODUCTS - CALCINING</td>
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<tr>
<td></td>
<td>Grinding/Milling</td>
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<td>3-05-150-04</td>
<td>MINERAL PRODUCTS</td>
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<td></td>
<td>MINERAL PRODUCTS - CALCINING</td>
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<tr>
<td></td>
<td>Finished Product Handling</td>
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<tr>
<td>3-05-150-05</td>
<td>MINERAL PRODUCTS</td>
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<tr>
<td></td>
<td>MINERAL PRODUCTS - CALCINING</td>
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<td></td>
<td>Mixing</td>
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<tr>
<td>3-05-999-99</td>
<td>MINERAL PRODUCTS</td>
</tr>
<tr>
<td></td>
<td>MINERAL PRODUCTS - OTHER NOT DEFINED</td>
</tr>
<tr>
<td></td>
<td>Specify in Comments Field</td>
</tr>
<tr>
<td>3-99-999-98</td>
<td>MISCELLANEOUS MANUFACTURING INDUSTRIES</td>
</tr>
<tr>
<td></td>
<td>MISCELLANEOUS INDUSTRIAL PROCESSES</td>
</tr>
<tr>
<td></td>
<td>Other Not Classified</td>
</tr>
</tbody>
</table>

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. ONY100-00-0. 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.

<table>
<thead>
<tr>
<th>Cas No.</th>
<th>Contaminant Name</th>
<th>PTE</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>000107-21-1</td>
<td>1,2-ETHANEDIOL</td>
<td>&gt;= 10 tpy</td>
<td></td>
</tr>
<tr>
<td>000108-38-3</td>
<td>1,3 DIMETHYL BENZENE</td>
<td>&gt;= 10 tpy</td>
<td></td>
</tr>
<tr>
<td>000083-32-9</td>
<td>ACENAPHTHENE</td>
<td>&gt; 0 but &lt; 10 tpy</td>
<td></td>
</tr>
<tr>
<td>000071-43-2</td>
<td>BENZENE</td>
<td>&gt; 0 but &lt; 10 tpy</td>
<td></td>
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<td>BENZO(A)PYRENE</td>
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<td>000086-73-7</td>
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<td>FORMALDEHYDE</td>
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<td>NAPHTHALENE</td>
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<td>ONY075-00-0</td>
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<td>PHENANTHRENE</td>
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<td>ONY100-00-0</td>
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<tr>
<td>ONY998-00-0</td>
<td>VOC</td>
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</table>

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 9-2930-00032/00263
Renewal Number: 3
08/17/2015

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

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

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

Item B: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10(b)
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.2(a)(4)
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.2(d)(12)
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.4(a)(2)
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.4(a)(3)
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or
termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4(a)(5)
It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item H: Property Rights - 6 NYCRR 201-6.4(a)(6)
This permit does not convey any property rights of any sort or any exclusive privilege.

Item I: Severability - 6 NYCRR Part 201-6.4(a)(9)
If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item J: Permit Shield - 6 NYCRR Part 201-6.4(g)
All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

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

ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;

iii. The applicable requirements of Title IV of the Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item K: Reopening for Cause - 6 NYCRR Part 201-6.4(i)
This Title V permit shall be reopened and revised under any of the following circumstances:

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

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

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

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

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

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

Item L: Permit Exclusion - ECL 19-0305
The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item M: Federally Enforceable Requirements - 40 CFR 70.6(b)
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

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 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

<table>
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<tr>
<th>Location</th>
<th>Regulation</th>
<th>Condition</th>
<th>Short Description</th>
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<tr>
<td>FACILITY</td>
<td>ECL 19-0301</td>
<td>38</td>
<td>Powers and Duties of the Department with respect to air pollution control</td>
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<td>0-00002/00201</td>
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<td>COMPLIANCE ASSURANCE MONITORING</td>
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<td>40CFR 68</td>
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<td>Unavoidable noncompliance and violations</td>
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<td>Exempt Activities - Proof of eligibility</td>
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**Applicability Discussion:**

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

**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.

6 NYCRR 201-6.4 (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 201-6.4 (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 201-6.4 (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 201-6.4 (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 201-6.4 (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 201-6.4 (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 201-6.4 (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 201-6.4 (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 201-6.4 (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.

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

40 CFR Part 82, Subpart F
Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements
In addition to Title V, TAM CERAMICS LLC has been determined to be subject to the following regulations:

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 201-6.4 (f) (2)
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 212.10 (c) (3)
A NOx RACT variance was submitted to and approved by the Department and the EPA and will become part of the State SIP.

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 212.4 (b)
212.4(b) establishes a limit on gas and liquid particulates.

6 NYCRR 212.4 (c)
This rule requires existing sources (in operation after 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 0.05 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 Part 211
This regulation specifies general prohibitions regarding air pollution, visible emissions and the use of VOC's in liquefying asphalt used for paving purposes.

6 NYCRR Part 212

Compliance Certification
Summary of monitoring activities at TAM CERAMICS LLC:
### Basis for Monitoring

Particulate matter is subject to the regulatory emission limits of 6NYCRR, Part 212.3(b) and 212.4(c) which are 0.15 and 0.05 grains/dscf respectively.

The permittee utilizes fabric filter dust collectors, cyclones, and settling chambers for the control of particulate emissions at the facility. In order to demonstrate continuous compliance with 6NYCRR, Part 212.4(c) and 212.3(b), inspection and maintenance procedures which consist of daily inspections to record magnehelic readings and daily visible emissions evaluations. If visible emissions are observed or deviations from the normal operating ranges specified on the log sheets noted, an inspection of the control equipment is conducted as per the troubleshooting guidelines and the required maintenance procedures implemented. In addition, weekly or between production runs, a visual inspection to determine the physical integrity of bags and supporting cages and appurtenances is conducted.

Actual nitrogen oxide (NOx) emissions are in excess of 100 tons per year and require compliance with the Reasonably Available Control Technology (RACT) requirements of 6NYCRR, Part 212.10. A RACT analysis was performed and submitted for the three single-phase electric arc furnaces and one small scale three-phase electric arc R & D furnace, each described within emission unit 00002. Because there are no control options available, the permittee requests a technical variance from the RACT requirements. Both this Department and the United States Environmental Protection Agency (USEPA) have conducted a preliminary review of the RACT analysis and found it to be acceptable. This permit incorporates a special condition for emission unit 00002 which limits actual NOx emissions from these four sources to 15.9#/hour per furnace and 210 tons per year total. Each furnace consists of a steel shell with a flat bottom and an inner shell which is constructed of carbon, therefore,
there is no refractory maintenance requirement. The variance request has been formally submitted to the USEPA as a source specific revision to the State Implementation Plan (SIP).

Three high temperature carbon arc furnaces used for the melting of zirconium and designated as furnaces #9, #10 & #11, and described in emission unit 00002 are exhausted through emission point 00201. Potential emissions of particulates are greater than 100 tons per year and therefore these sources are subject to the Compliance Assurance Monitoring (CAM) requirements of 40 CFR Part 64. The facility has submitted a plan for monitoring consistent with the requirements of this rule.

The permittee is required to monitor fugitive emissions from roadways and storage piles and implement a fugitive dust control plan if necessary as a requirement of the condition for 6NYCRR, Part 211.