



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 1-4726-00009/00019

Renewal Number: 1

06/16/2016

Facility Identification Data

Name: AMERICAN TECHNICAL CERAMICS
Address: 1 NORDEN LN AND 10 & 15 STEPAR PL
HUNTINGTON STATION, NY 11746

Owner/Firm

Name: AMERICAN TECHNICAL CERAMICS
Address: 1 NORDEN LN
HUNTINGTON STATION, NY 11746-2140, USA
Owner Classification: Corporation/Partnership

Permit Contacts

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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

American Technical Ceramics (ATC) is submitting a Title V permit renewal application. The facility is located in a severe non-attainment area for ozone and has the potential to emit more than 25 tons per year (TPY) of volatile organic compounds (VOCs).



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Attainment Status

AMERICAN TECHNICAL CERAMICS is located in the town of HUNTINGTON in the county of SUFFOLK.

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*	SEVERE 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:

American Technical Ceramics (ATC) Corporation provides component and interconnection substrate solutions for the RH microwave and telecom industries. ATC designs, develops, manufactures and markets component thin-film and LTCC products. Applications for such products include the wireless communication infrastructure, fiber optic, medical electronics, semi-conductor manufacturing equipment, defense, aerospace, and satellite communication devices industries.

Permit Structure and Description of Operations

The Title V permit for AMERICAN TECHNICAL CERAMICS

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



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control - emission control devices
process - any device or contrivance which may emit air contaminants
that is not included in the above categories.

AMERICAN TECHNICAL CERAMICS is defined by the following emission unit(s):

Emission unit 010001 - Casting

Emission unit 010001 is associated with the following emission points (EP):
01001

Process: P24 is located at Norden Lane, Building 1 - Casting - 12 casting machines - ceramic roll formation. Dryers on casting belt batches contain isopropanol.

Emission unit 010002 - Mixing Fume Hood.

Emission unit 010002 is associated with the following emission points (EP):
01002

Process: P21 is located at Norden Lane, Building 1 - Mixing fume hood - Exhaust for the mixing area.

Emission unit 010003 - Batching Room

Emission unit 010003 is associated with the following emission points (EP):
01003

Process: P22 is located at Norden Lane, Building 1 - Batching room - Batch mixing and formation of ceramic. Various mixers (all <100 gallons) and grinders. Batches contain alcohol.

Emission unit 010004 - Furnace Room/BBO

Emission unit 010004 is associated with the following emission points (EP):
01004

Process: P25 is located at Norden Lane, Building 1 - Furnace room/BBO - Furnace room for binder burnout.

Emission unit 100200 - Screening room with fume hood

Emission unit 100200 is associated with the following emission points (EP):
00200

Process: P18 is located at Stepar Place, Building 10 - Screening room with fume hood - Screening room, for the manufacture of screens for printing. Also the removal of metal on screen print to etch pattern (ferric chloride is used).



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Emission unit 100202 - Kilns

Emission unit 100202 is associated with the following emission points (EP):
00202

Process: P19 is located at Stepar Place, Building 10 - Firing in Kiln

Emission unit 100203 - Screen cleaning room: vents for solvent use, cleaning room with fume hood, low point room

Emission unit 100203 is associated with the following emission points (EP):
00203

Process: P20 is located at Stepar Place, Building 10 - Screen cleaning room/low point room; vents for solvent use - A cleaning room with a fume hood. Vent is for solvent use - cork and tape removal of blocks, soak in a solution of 80%/20% mixes of Speedball/IPA and Axarel 2200/IPA.

Emission unit 100204 - Dicing room

Process: P23 is located at Stepar Place, Building 10 - Dicing room - Cutting of ceramics parts to required sizes.

Emission unit 150001 - Quality control lab

Emission unit 150001 is associated with the following emission points (EP):
00001

Process: P01 is located at Stepar Place, Building 15 - Quality control lab - Testing and rating of parts; also grinding and polishing of acrylic.

Emission unit 150002 - Chipstar

Emission unit 150002 is associated with the following emission points (EP):
00002

Process: P02 is located at Stepar Place, Building 15 - Chipstar - Ink application and cleaning performed by Chipstar equipment. Ink is applied to ceramic chips and cleaned with Varsol and Axarel 2000.

Emission unit 150003 - Drying kilns

Emission unit 150003 is associated with the following emission points (EP):
00003

Process: P03 is located at Stepar Place, Building 15 - Drying kilns - Driving off of organics in inks.



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Emission unit 150004 - Palomar machines - ink application and cleaning

Emission unit 150004 is associated with the following emission points (EP):
00004

Process: P04 is located at Stepar Place, Building 15 - Palomar machines, ink application and cleaning - Ink is applied to ceramic chips and cleaned with Varsol and Axarel 2000.

Emission unit 150006 - Nickel plating lead/tin bath

Emission unit 150006 is associated with the following emission points (EP):
00006

Process: P06 is located at Stepar Place, Building 15 - Fume Hoods, lead/tin bath - nickel plating bath under fume hoods; also silver cleaning.

Emission unit 150012 - Lead/tin plating

Emission unit 150012 is associated with the following emission points (EP):
00012

Process: P10 is located at Stepar Place, Building 15 - Lead/tin plating - performed under fume hood. Also, copper bath performed under fume hood.

Emission unit 150014 - Chemical dispensing and waste storage

Emission unit 150014 is associated with the following emission points (EP):
00014

Process: P11 is located at Stepar Place, Building 15 - Chemical dispensing and waste storage - storage area for solvents.

Emission unit 150023 - Branson 950R ultrasonic vapor degreaser which uses Lunium ES solvent. This replaced the previous degreaser which used 1,1,1 trichloroethane (TCE). The unit also contains fume hoods, hand dip pots and ovens.

Emission unit 150023 is associated with the following emission points (EP):
00023

Process: P12 is located at Stepar Place, Building 15 - Fume hood, hand dip pots, solder dip pots, degreaser. Parts are degreased under a fume hood using a Branson model B950R degreaser and Lunium ES solvent.

Emission unit 150024 - Abrading room



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Emission unit 150024 is associated with the following emission points (EP):
00024

Process: P13 is located at Stepar Place, Building 15 - Abrading room - hand dip pots; aluminum oxide particles.

Emission unit 150027 - QA lab hood, solder station, IPA and flux

Emission unit 150027 is associated with the following emission points (EP):
00027

Process: P15 is located at Stepar Place, Building 15 - QA lab hood, solder station, IPA and flux

Emission unit 150029 - Fume hood

Emission unit 150029 is associated with the following emission points (EP):
00029

Process: P17 is located at Stepar Place, Building 15 - Fume hood - Atomic adsorption and termination paste firing under fume hood.

Emission unit 130002 - Termination ink blending - Formation of silvering inks and cleaning with 50% Axarel 2200 / 50% isopropanol solution.

Emission unit 130002 is associated with the following emission points (EP):
30002

Process: P26 is located at Building 15 - Termination ink blending - formation of silvering inks and cleaning with 50% Axarel 2200 and 50% isopropanol solution.

Emission unit 130200 - Electrode ink blending - Preparation of palladium metal inks & cleaning of vessels/utensils using a solution of 50% isopropanol and 50% toluene.

Emission unit 130200 is associated with the following emission points (EP):
30200

Process: P60 is located at Building 15 - Electrode ink blending - Preparation of palladium metal inks & cleaning of vessels/utensils using a solution of 50% isopropanol and 50% toluene.

Emission unit 150010 - Parts cleaning and oven drying

Emission unit 150010 is associated with the following emission points (EP):
00010

Process: P09 is located at Stepar Place, Building 15 - Parts cleaning and oven drying - ovens to drive off



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acetone.

Emission unit 150013 - Assembly reflow kilns

Emission unit 150013 is associated with the following emission points (EP):

00013

Process: P61 is located at Building 15 - Solder reflow kiln - parts are passed through electric furnace to melt solder.

Emission unit 150030 - Belt cleaning and chip wash

Emission unit 150030 is associated with the following emission points (EP):

00030

Process: P27 is located at Building 15 - Belt Cleaning and chip wash

Emission unit 150031 - SBE plating, parts cleaning and oven drying - SBE automatic nickel/tin plating system; parts cleaning and oven drying.

Emission unit 150031 is associated with the following emission points (EP):

00031

Process: P29 is located at Building 15 - SBE automatic nickel/tin plating system. parts cleaning and oven drying

Emission unit 150032 - Mold making area and Humiseal

Emission unit 150032 is associated with the following emission points (EP):

00032

Process: P28 is located at Building 15 - Mold making area

Emission unit 100206 - Rotary room 1 - Ceramic blocks are cut and ink is applied to some. Blank sheets are stacked to make a block; screens are cleaned with solvent soaked rags which contain 50% toluene and 50% isopropanol.

Emission unit 100206 is associated with the following emission points (EP):

00220, 00221

Process: P31 is located at Building 10 - Ceramic blanks are cut, ink is applied to some blanks sheets are stacked to make a block; screens are cleaned with solvent soaked rags which contain 50/50 toluene/isopropanol.

Emission unit 100205 - Rotary room 2



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Emission unit 100205 is associated with the following emission points (EP):
00205, 00206

Process: P30 is located at Building 10 - Ceramic blanks are cut, ink is applied to some blanks sheets are stacked to make a block; screens are cleaned with solvent soaked rags which contain 50/50 toluene/isopropanol.

Title V/Major Source Status

AMERICAN TECHNICAL CERAMICS is subject to Title V requirements. This determination is based on the following information:

The facility is subject to Title V requirements because it is a major source for volatile organic compound (VOC) emissions. The facility is located in severe non attainment area for ozone and the potential to emit for VOCs is greater than 25 tons per years.

Program Applicability

The following chart summarizes the applicability of AMERICAN TECHNICAL CERAMICS with regards to the principal air pollution regulatory programs:

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

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52, 6 NYCRR 231-7, 231-8) - 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 231-5, 231-6) - 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, 6 NYCRR 200.10) - 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,



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vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

MACT Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - 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, 6 NYCRR 200.10) - 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, 6 NYCRR 201-6) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - 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, 6 NYCRR 200.10) - 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

3675

ELECTRONIC CAPACITORS



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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
3-04-020-04	SECONDARY METAL PRODUCTION SECONDARY METAL PRODUCTION - FURNACE ELECTRODE MANUFACTURE Bake Furnaces
3-05-030-99	MINERAL PRODUCTS MINERAL PRODUCTS - CERAMIC ELECTRIC PARTS Other Not Classified
3-08-006-99	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS - OTHER FABRICATED PLASTICS Other Not Classified
3-09-060-05	FABRICATED METAL PRODUCTS FABRICATED METAL PRODUCTS - PORCELAIN ENAMEL/CERAMIC GLAZE SPRAYING CERAMIC GLAZE: PLATING
3-13-030-63	ELECTRICAL EQUIPMENT ELECTRICAL EQUIPMENT - GENERAL CIRCUIT BOARD ETCHING - PLASMA
3-13-035-01	ELECTRICAL EQUIPMENT ELECTRICAL EQUIPMENT - GENERAL PROCESSES ELECTRICAL EQUIPMENT MANUFACTURING-GENERAL PROCESSES-SOLDERING
3-13-035-02	ELECTRICAL EQUIPMENT ELECTRICAL EQUIPMENT - GENERAL PROCESSES ELECTRICAL EQUIPMENT MANUFACTURING-GENERAL PROCESSES-CLEANING
4-01-002-02	ORGANIC SOLVENT EVAPORATION ORGANIC SOLVENT EVAPORATION - DEGREASING 1,1,1-TRICHLOROETHANE (METHYL CHLOROFORM)- OPEN-TOP VAPOR DEGREASING
4-02-009-04	SURFACE COATING OPERATIONS THINNING SOLVENTS - GENERAL Butyl Alcohol
4-02-009-29	SURFACE COATING OPERATIONS THINNING SOLVENTS - GENERAL 1,1,1-Trichloroethane (Methyl Chloroform)
4-05-008-01	PRINTING/PUBLISHING PRINTING/PUBLISHING - GENERAL PRINTING/PUBLISHING GENERAL-SCREEN PRINTING
6-31-340-27	AGRICULTURAL CHEMICALS PRODUCTION AGRICULTURAL CHEMICALS - DACTHAL PRODUCTION PROCESS VENTS, FORMULATION: GRINDING TANKS

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



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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 of 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
000075-65-0	2-METHYL-2-PROPANOL	> 0	but < 2.5 tpy
009003-07-0	1-PROPENE, HOMOPOLYMER (C3H6)X	> 0	but < 2.5 tpy
000141-43-5	2-AMINOETHANOL	> 0	but < 2.5 tpy
000080-62-6	2-PROPENOIC ACID, 2- METHYL-, METHYL ESTER	> 0	but < 10 tpy
000098-55-5	3-CYCLOHEXENE-1- METHANOL, ALPHA., .ALPH A., .ALPHA., 4- TRIMETHYL-	> 0	but < 2.5 tpy
000074-86-2	ACETYLENE	> 0	but < 2.5 tpy
001344-28-1	ALUMINUM OXIDE	> 0	but < 2.5 tpy
007664-41-7	AMMONIA	> 0	but < 2.5 tpy
001309-64-4	ANTIMONY TRIOXIDE	> 0	but < 10 tpy
013967-50-5	AURATE(1-), BIS(CYANO-C)-, POTASSIUM	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	> 0	but < 2.5 tpy
002409-55-4	CRESOL, 2-TERT BUTYL P-	> 0	but < 2.5 tpy
000067-64-1	DIMETHYL KETONE	> 0	but < 2.5 tpy
010102-90-6	DIPHOSPHORIC ACID, COPPER SALT CU.XH4O7P2	> 0	but < 2.5 tpy
007320-34-5	DIPHOSPHORIC ACID, TETRAPOTASSIUM SALT H4O7P2.4K	> 0	but < 2.5 tpy
000111-76-2	ETHANOL, 2-BUTOXY-	> 0	but < 2.5 tpy
000124-17-4	ETHANOL, 2(2- BUTOXYETHOXY)- , ACETATE	> 0	but < 10 tpy
000112-27-6	ETHANOL, 2, 2'- 1, 2- ETHANEDIYLBIS(OXY) BIS	> 0	but < 10 tpy
009002-89-5	ETHENOL HOMOPOLYMER	> 0	but < 2.5 tpy
000064-17-5	ETHYL ALCOHOL (ETHANOL)	> 0	but < 2.5 tpy
009004-57-3	ETHYL CELLULOSE	> 0	but < 2.5 tpy
000106-88-7	ETHYL OXIRANE	> 0	but < 10 tpy
068476-39-1	HYDROCARBONS, ALIPH- AROM-C4-5 OLEFINIC	> 0	but < 2.5 tpy
000067-63-0	ISOPROPYL ALCOHOL	>= 40	tpy but < 50 tpy
007439-92-1	LEAD	> 0	but < 10 tpy



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000506-59-2	METHANAMINE,N-METHYL- ,HYDROCHLORIDE	> 0 but < 2.5 tpy
000109-87-5	METHANE, DIMETHOXY	> 0 but < 2.5 tpy
000075-75-2	METHANESULFONIC ACID	> 0 but < 2.5 tpy
000067-56-1	METHYL ALCOHOL	> 0 but < 10 tpy
064742-94-5	NAPHTHA HEAVY AROMATIC	> 0 but < 2.5 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	> 0 but < 2.5 tpy
0NY075-00-0	PARTICULATES	> 0 but < 2.5 tpy
009003-35-4	PHENOL,POLYMER WITH FORMALDEHYDE MIX	> 0 but < 2.5 tpy
0NY075-00-5	PM-10	> 0 but < 2.5 tpy
000151-50-8	POTASSIUM CYANIDE	> 0 but < 10 tpy
000106-94-5	PROPANE, 1-BROMO-	> 0 but < 2.5 tpy
000078-92-2	SEC-BUTYL ALCOHOL (8CI)	> 0 but < 2.5 tpy
060676-86-0	SILICA VITREOUS	> 0 but < 2.5 tpy
007440-22-4	SILVER	> 0 but < 2.5 tpy
064742-89-8	SOLVENT NAPHTHA, LIGHT ALIPHATIC	> 0 but < 2.5 tpy
007446-09-5	SULFUR DIOXIDE	> 0 but < 2.5 tpy
007664-93-9	SULFURIC ACID	> 0 but < 2.5 tpy
008000-41-7	TERPINEOL	> 0 but < 2.5 tpy
007440-31-5	TIN	> 0 but < 2.5 tpy
000108-88-3	TOLUENE	>= 10 tpy
0NY100-00-0	TOTAL HAP	>= 2.5 tpy but < 10 tpy
0NY998-00-0	VOC	48000

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:

- (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.



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(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.



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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.



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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

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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

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
FACILITY	ECL 19-0301	36	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 63-A	26	Subpart A - General Provisions apply to all NESHAP affected sources
FACILITY	40CFR 63-WWWWWW	27, 28, 29, 30	Plating and Polishing Operations Area Source NESHAP
FACILITY	40CFR 68	19	Chemical accident prevention provisions
FACILITY	40CFR 82-F	20	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	37	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 - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	21, 31, 32	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4(a)(4)	15	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4(a)(7)	2	General Conditions - Fees
FACILITY	6NYCRR 201-6.4(a)(8)	16	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4(c)	3	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4(c)(2)	4	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4(c)(3)(ii)	5	Reporting Requirements - Deviations and Noncompliance



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FACILITY	6NYCRR 201-6.4(d)(4)	22	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4(e)	6	Compliance Certification
FACILITY	6NYCRR 201-6.4(f)(6)	17	Off Permit Changes
FACILITY	6NYCRR 201-7	23	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	25	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	38	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
1-50023/00023	6NYCRR 226.2	33	General Requirements
1-50023/00023	6NYCRR 226.3(b)	34	Equipment specification- open top vapor degreasing
1-50023/00023	6NYCRR 226.4(b)	35	Operating Requirements- open top vapor degreasers

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



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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.



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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 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



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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, AMERICAN TECHNICAL CERAMICS has been determined to be subject to the following regulations:

40 CFR Part 63, Subpart A

The General Provisions in 40CFR63, Subpart A apply to facilities subject to other National Emission Standards for Hazardous Air Pollutants for Source Categories (NESHAP) regulations in 40 CFR 63. These rules are also known as MACT rules since they are based on attaining Maximum Achievable Control Technology. Each MACT rule has a table or section that describe which portions of the General Provisions apply to facilities covered by that particular rule and which portions are overridden or do not apply. Note that NESHAP regulations found in 40CFR61 do **not** trigger the general provisions of 40CFR63.

40 CFR Part 63, Subpart WWWW

6 NYCRR 201-6.4 (a) (4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide any 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



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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 applies to all facilities subject to Title V requirements and 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 (d) (4)

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 (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 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 226.2



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6 NYCRR 226.3 (b)

6 NYCRR 226.4 (b)

6 NYCRR Subpart 201-7

Compliance Certification

Summary of monitoring activities at AMERICAN TECHNICAL CERAMICS:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
FACILITY	29	record keeping/maintenance procedures
FACILITY	30	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	24	monitoring of process or control device parameters as surrogate
FACILITY	7	record keeping/maintenance procedures
1-50023/00023	33	record keeping/maintenance procedures
1-50023/00023	34	record keeping/maintenance procedures
1-50023/00023	35	record keeping/maintenance procedures

Basis for Monitoring

40CFR Part 63, Subpart wwwwww - The condition cited under this rule specifically applies to plating and polishing operations. The requirement sets record keep/maintenance procedures for the applicable management practices as specified in the regulation.

226.2 - This monitoring condition has been included to address the open container prohibition for solvent metal cleaning process subject to Part 226. The intent of the requirement is to minimize fugitive emissions of solvent due to evaporation.