

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 1-4726-00009/00019



02/24/2003

Facility Identification Data

Name: AMERICAN TECHNICAL CERAMICS
Address: ONE NORDEN PL AND 10 & 15 STEPAR PL
City: HUNTINGTON STA
Zip: 11746

Owner/Firm

Name: AMERICAN TECHNICAL CERAMICS
City: HUNTINGTON STATION
State: NY Country: USA Zip: 11746
Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:
Name: ROGER EVANS
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SUNY CAMPUS, LOOP ROAD, BUILDING 40

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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

THIS IS AN EXISTING FACILITY SUBMITTING A TITLE V PERMIT APPLICATION. THE FACILITY IS LOCATED IN A SEVERE NON ATTAINMENT AREA FOR OZONE AND HAS A POTENTIAL TO EMIT FOR VOCS GREATER THAN 25 TONS PER YEAR.

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

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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 CORP (ATC) PROVIDES COMPONENT AND INTERCONNECTION SUBSTRATE SOLUTIONS FOR RF, MICROWAVE AND TELECOMMUNICATIONS INDUSTRIES. ATC DESIGNS, DEVELOPES, MANUFACTURES AND MARKETS COMPONENT, THIN FILM, AND LTCC PRODUCTS. APPLICATIONS FOR THE PRODUCTS INCLUDE THE WIRELESS COMMUNICATION INFRASTRUCTURE , FIBER OPTIC, MEDICAL ELECTRONICS, SEMICONDUCTOR MANUFACTURING EQUIPMENT, DEFENSE, AEROSPACE, AND SATELITE COMMUNICATIONS MARKETS.

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

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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.

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

It is further defined by the following process(es):

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

Emission unit 010002 - FUME HOOD

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

01002

It is further defined by the following process(es):

Process: P21 is located at Norden Lane, Building 1 - Fume Hood.

Emission unit 010003 - BATCHING ROOM

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

01003

It is further defined by the following process(es):

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

Emission unit 010004 - FURNACE ROOM/BBO

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

01004

It is further defined by the following process(es):

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

Emission unit 100200 - SCREENING ROOM WITH FUME HOOD

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

00200

It is further defined by the following process(es):

Process: P18 is located at Stepar Place, Building 10 - Screening room with fume hood; preparation of precious metal inks, cleaning of vessels and utensils with toluene, manufacture of screens for printing and removal of metal on screen print to etch pattern (ferris chloride used).

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Emission unit 150014 - CHEMICAL DISPENSING AND WASTE STORAGE

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

It is further defined by the following process(es):

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

Emission unit 150023 - FUME HOODS, DEGREASING AND OVENS

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

It is further defined by the following process(es):

Process: P12 is located at Stepar Place, Building 15 - Fume hood for soldering pits, ovens to drive off soldering fluids. Degreasing with TCE and fume hood for parts cleaning with TCE.

Emission unit 150024 - HAND DIP POTS AND ABRADING ROOM

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

It is further defined by the following process(es):

Process: P13 is located at Stepar Place, Building 15 - Hand dip pots and abrading room, aluminum oxide particles.

Emission unit 150026 - OVENS AND EPOXY COATING

Emission unit 150026 is associated with the following emission points (EP):
00026

It is further defined by the following process(es):

Process: P14 is located at Stepar Place, Building 15 - Ovens and epoxy coating. vents to drive off cleaning fluids and epoxy coating vent (encapsulation).

Emission unit 150027 - QA LAB HOOD, SOLDER STATION, IPA AND FLUX

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

It is further defined by the following process(es):

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

Emission unit 150028 - ROOM VENT FOR X RAY MACHINE

Emission unit 150028 is associated with the following emission points (EP):
00028

It is further defined by the following process(es):

Process: P16 is located at Stepar Place, Building 15 - Room vent for x-ray machine. Fuji film processor.

Emission unit 150029 - FUME HOOD

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

It is further defined by the following process(es):

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

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Emission unit 100202 - KILNS

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

It is further defined by the following process(es):

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

Emission unit 100203 - VENT FOR SOLVENT USE

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

It is further defined by the following process(es):

Process: P20 is located at Stepar Place, Building 10 - Vent for solvent use - cork and tape removal of blocks, soak in a solution of isopropanol and speed ball.

Emission unit 100204 - DICING ROOM

It is further defined by the following process(es):

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

Emission unit 150001 - QUALITY CONTROL LAB.

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

It is further defined by the following process(es):

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

Emission unit 150002 - INK ROOM

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

It is further defined by the following process(es):

Process: P02 is located at Stepar Place, Building 15 - Ink room- Formation of silvering inks and cleaning with methle ethyl ketone under hood (silver termination paste)

Emission unit 150003 - DRYING KILNS

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

It is further defined by the following process(es):

Process: P03 is located at Stepar Place, Building 15 - Drying kilns- drives off organics in ink.

Emission unit 150004 - INK APPLICATION AND CLEANING

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

It is further defined by the following process(es):

Process: P04 is located at Stepar Place, Building 15 - Ink application and cleaning- Ink is applied to ceramic chipsand cleaned with Varsol and Axerel-2000.

Emission unit 150006 - FUME HOODS

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

It is further defined by the following process(es):

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

Emission unit 150008 - GOLD PLATING

Emission unit 150008 is associated with the following emission points (EP):
00008

It is further defined by the following process(es):

Process: P07 is located at Stepar Place, Building 15 - Gold plating bath under fume hood.

Emission unit 150009 - CYANIDE BATH

Emission unit 150009 is associated with the following emission points (EP):
00009

It is further defined by the following process(es):

Process: P08 is located at Stepar Place, Building 15 - Cyanide bath under fume hood

Emission unit 150010 - PARTS CLEANING AND OVEN DRYING

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

It is further defined by the following process(es):

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

Emission unit 150012 - LEAD/TIN PLATING

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

It is further defined by the following process(es):

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

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 LOCATED IN A SEVERE NON ATTAINMENT AREA FOR OZONE AND HAS A POTENTIAL TO EMIT FOR VOCS GREATER THAN 25 TONS PER YEAR.

Program Applicability

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

Regulatory Program	Applicability
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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	YES
SIP	YES

NOTES:

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

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

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

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

NSPS New Source Performance Standards (40 CFR 60) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the

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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.

SIC Code	Description
3675	ELECTRONIC CAPACITORS

SCC Codes

SCC or Source Classification Code is a code developed and used by the USEPA to categorize

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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
6-31-340-27	AGRICULTURAL CHEMICALS PRODUCTION AGRICULTURAL CHEMICALS - DACTHAL PRODUCTION PROCESS VENTS, FORMULATION: GRINDING TANKS
3-13-035-02	ELECTRICAL EQUIPMENT ELECTRICAL EQUIPMENT - GENERAL PROCESSES ELECTRICAL EQUIPMENT MANUFACTURING-GENERAL PROCESSES-CLEANING
3-13-035-01	ELECTRICAL EQUIPMENT ELECTRICAL EQUIPMENT - GENERAL PROCESSES ELECTRICAL EQUIPMENT MANUFACTURING-GENERAL PROCESSES-SOLDERING
3-09-060-05	FABRICATED METAL PRODUCTS FABRICATED METAL PRODUCTS - PORCELAIN ENAMEL/CERAMIC GLAZE SPRAYING CERAMIC GLAZE: PLATING
3-05-030-99	MINERAL PRODUCTS MINERAL PRODUCTS - CERAMIC ELECTRIC PARTS Other Not Classified
4-01-002-02	ORGANIC SOLVENT EVAPORATION ORGANIC SOLVENT EVAPORATION - DEGREASING 1,1,1-TRICHLOROETHANE (METHYL CHLOROFORM)-OPEN-TOP VAPOR DEGREASING
3-15-030-01	PHOTOGRAPHIC EQUIPMENT MISCELLANEOUS INDUSTRIES - PHOTOGRAPHIC EQUIPMENT- LABORATORIES MISCELLANEOUS INDUSTRIES-LABORATORIES-BENCH SCALE REAGENTS-RESEARCH
4-05-008-01	PRINTING/PUBLISHING PRINTING/PUBLISHING - GENERAL PRINTING/PUBLISHING GENERAL-SCREEN PRINTING
3-04-020-04	SECONDARY METAL PRODUCTION SECONDARY METAL PRODUCTION - FURNACE ELECTRODE MANUFACTURE Bake Furnaces
4-02-009-29	SURFACE COATING OPERATIONS THINNING SOLVENTS - GENERAL 1,1,1-Trichloroethane (Methyl Chloroform)
4-02-009-04	SURFACE COATING OPERATIONS THINNING SOLVENTS - GENERAL Butyl Alcohol

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series 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

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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
000112-73-2	BUTANE, 1,1' - [OXYBIS (2,1 - ETHANEDIYLOXY)] BIS(HAP)	> 0	but < 10 tpy
000630-08-0	CARBON MONOXIDE	> 0	but < 2.5 tpy
007440-50-8	COPPER	> 0	but < 2.5 tpy
0NY100-00-0	HAP	>= 2.5	tpy but < 10 tpy
007439-92-1	LEAD(HAP)	> 0	but < 10 tpy
000080-62-6	METHYL ACRYLIC ACIDMETHYL ESTER(HAP)	> 0	but < 10 tpy
000078-93-3	METHYL ETHYL KETONE(HAP)	> 0	but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	> 0	but < 2.5 tpy
0NY075-00-0	PARTICULATES	> 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
000108-88-3	TOLUENE(HAP)	> 0	but < 10 tpy
000079-01-6	TRICHLOROETHYLENE(HAP)	2490.3	
0NY998-00-0	VOC	>= 25	tpy but < 40 tpy
001330-20-7	XYLENE, M, O & P MIXT.(HAP)	> 0	but < 10 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A:

Sealing - 6NYCRR Part 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

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Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6NYCRR Part 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6NYCRR Part 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6NYCRR Part 201-1.2

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6NYCRR Part 201-1.5

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

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

(1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;

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

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

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

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

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

Item F: Recycling and Salvage - 6NYCRR Part 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6NYCRR Part 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item H: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 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 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item I: Proof of Eligibility for Sources Defined as Exempt Activities - 6NYCRR Part 201-3.2(a)

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The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item J: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR Part 201-3.3(a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

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

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

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

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

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

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act

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and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

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

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

Item O: Providing Information Upon Request - 6 NYCRR Part 201-6.5(a)(4)

The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

Item P: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR Part 201-6.5(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 Q: Property Rights - 6 NYCRR Part 201-6.5(a)(6)

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

Item R: Fees - 6 NYCRR Part 201-6.5(a)(7)

The owner and/or operator of a stationary source shall pay fees to the department consistent with the fee schedule authorized by 6 NYCRR Subpart 482-2.

Item S: Right to Inspect - 6 NYCRR Part 201-6.5(a)(8)

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an

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authorized representative to perform the following:

- i. Enter upon the permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- iii. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

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

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

Item U: Progress Reports and Compliance Schedules - 6 NYCRR Part 201-6.5(d)(5)

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- ii. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Item V: Off Permit Changes - 6 NYCRR Part 201-6.5(f)(6)

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods),

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recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the Administrator and the Department with written notification in advance of the proposed changes within a minimum of 7 days as required by 6 NYCRR §201-6.5(f)(6).

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

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

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

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

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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 Y: Required Emission Tests - 6 NYCRR Part 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

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- Item Z: Visible Emissions Limited - 6 NYCRR Part 211.3**
Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.
- Item AA: Open Fires - 6 NYCRR Part 215**
No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.
- Item BB: 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 CC: 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

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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

Location Facility/EU/EP/Process/ES	Regulation	Short Description	Condition
FACILITY	ECL 19-0301.	Powers and Duties of the Department with respect to air pollution control	30
1-50023	40CFR 63-T.460(a)		16
1-50023	40CFR 63-T.463(a)		17
1-50023	40CFR 63-T.463(a)(1)		18
1-50023	40CFR 63-T.463(b)(1)		19
1-50023	40CFR 63-T.463(e)(2)(i)		20
1-50023	40CFR 63-T.463(e)(2)(iii)		21
1-50023	40CFR 63-T.466(a)(1)	Subpart T- Monitoring procedures	22
1-50023	40CFR 63-T.466(b)(1)	Subpart T- Monitoring procedures	23
1-50023	40CFR 63-T.467(a)(1)	Subpart T- Recordkeeping requirements	24, 25
1-50023	40CFR 63-T.467(a)(2)	Subpart T- Recordkeeping requirements	26
1-50023	40CFR 63-T.467(a)(5)	Subpart T- Recordkeeping requirements	27
1-50023	40CFR 63-T.467(b)(2)	Subpart T- Recordkeeping requirements	28
1-50023	40CFR 63-T.467(b)(3)	Subpart T- Recordkeeping requirements	29
FACILITY	40CFR 68.	Chemical accident prevention provisions	8
FACILITY	40CFR 82-F.	Protection of Stratospheric Ozone - recycling and emissions reduction	9
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	31

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FACILITY	6NYCRR 201-6.	Title V Permits and the Associated Permit Conditions	1, 10, 11
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	2
FACILITY	6NYCRR 201-6.5(c)(2)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	3
FACILITY	6NYCRR 201-6.5(c)(3)(ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	4
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	5
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	6
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	7
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	32
1-50023	6NYCRR 226.2	General Requirements.	12
1-50023	6NYCRR 226.3(b)	Open-top degreasing	13
1-50023	6NYCRR 226.3(b)(1)	Open-top degreasing	14
1-50023	6NYCRR 226.3(b)(3)	Open-top degreasing	15

Applicability Discussion:

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

ECL 19-301.

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.

6NYCRR Part 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.

6NYCRR Part 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

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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.

6NYCRR Part 201-6.5(c)

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

6NYCRR Part 201-6.5(c)(2)

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

6NYCRR Part 201-6.5(e)

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

6NYCRR Part 202-2.1

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

6NYCRR Part 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.

6NYCRR Part 211-.2

This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

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.

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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:

40CFR 63-T.460 (a)

This reference lists the type of degreaser units which are subject to the requirements in Subpart T if they use any of the six specific solvents listed with a concentration of at least 5 % by weight.

40CFR 63-T.463 (a)

This reference is the heading for the existing and new in-line and batch vapor solvent cleaning machine design requirements (e.g., freeboard ratio, cover, minimize drafts) which are needed to minimize solvent loss.

40CFR 63-T.463 (a) (1)

This reference is for the existing and new in-line and batch vapor solvent cleaning machine design requirements (e.g., freeboard ratio, cover, minimize drafts) which are needed to minimize solvent loss.

40CFR 63-T.463 (b) (1)

This reference is for the existing and new in-line and batch vapor solvent cleaning machine control requirements (e.g., freeboard ratio, cover, minimize drafts) which are needed to minimize solvent loss.

40CFR 63-T.463 (e) (2) (i)

This reference provides the freeboard refrigeration device standards that must be met during each monitoring period.

40CFR 63-T.463 (e) (2) (iii)

This reference is for the existing and new in-line and batch vapor solvent cleaning machine cover operating requirements (e.g., freeboard ratio, cover, minimize drafts) which are needed to minimize solvent loss.

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40CFR 63-T.466 (a) (1)

This regulation applies to facilities that use cleaning machines with freeboard refrigeration devices to comply with the standards set in 40 CFR 63 Subpart T (National Emission Standards for Halogenated Solvent Cleaning). It requires a thermometer or thermocouple to be used to measure the temperature of the air blanket in the machine during idling mode.

40CFR 63-T.466 (b) (1)

This regulation applies to facilities that use cleaning machines with freeboard refrigeration devices to comply with the standards set in 40 CFR 63 Subpart T (National Emission Standards for Halogenated Solvent Cleaning). It requires a working mode cover..

40CFR 63-T.467 (a) (1)

This reference is for the existing and new in-line and batch vapor solvent cleaning machine record keeping requirements . It requires maintenance of an owners manual or written operating procedures.

40CFR 63-T.467 (a) (2)

This reference is for the existing and new in-line and batch vapor solvent cleaning machine record keeping requirements .

40CFR 63-T.467 (a) (5)

This reference is for the existing and new in-line and batch vapor solvent cleaning machine record keeping requirements . It requires maintenance of records of HAP solvent content.

40CFR 63-T.467 (b) (2)

This reference is for the existing and new in-line and batch vapor solvent cleaning machine record keeping requirements . It requires record keeping for maintenance .

40CFR 63-T.467 (b) (3)

This reference is for the existing and new in-line and batch vapor solvent cleaning machine record keeping requirements . It requires record keeping for annual solvent consumption.

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

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

6NYCRR 226 .2

This reference provides the general requirements that owners and operators of solvent metal cleaning machines must comply with in addition to the other applicable requirements in this part. The general requirements include the proper storage, transfer, and disposal of solvents, the integrity of the equipment must be maintained, a summary of the operating procedures must be displayed, covers are to be closed when a degreaser is not used, and a record of solvent consumption must be maintained for one year.

6NYCRR 226 .3 (b)

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This regulation sets the requirements for open-top vapor degreasers. It requires that the cover open easily; that there be safety switches in case of malfunction; and that there be a freeboard ratio of 0.75, a refrigerated chiller, a local exhaust with controls and be designed to be opened only when parts are entering or exiting.

6NYCRR 226.3 (b) (1)

This regulation sets the requirements for open-top vapor degreasers. It requires that the cover open easily; that there be safety switches in case of malfunction; and that there be a freeboard ratio of 0.75, a refrigerated chiller, a local exhaust with controls and be designed to be opened only when parts are entering or exiting.

6NYCRR 226.3 (b) (3)

This regulation sets the requirements for open-top vapor degreasers. It requires that the cover open easily; that there be safety switches in case of malfunction; and that there be a freeboard ratio of 0.75, a refrigerated chiller, a local exhaust with controls and be designed to be opened only when parts are entering or exiting.

Compliance Certification

Summary of monitoring activities at AMERICAN TECHNICAL CERAMICS:

Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
1-50023	record keeping/maintenance procedures	16
1-50023	record keeping/maintenance procedures	17
1-50023	record keeping/maintenance procedures	18
1-50023	record keeping/maintenance procedures	19
1-50023	record keeping/maintenance procedures	20
1-50023	record keeping/maintenance procedures	21
1-50023	record keeping/maintenance procedures	22
1-50023	record keeping/maintenance procedures	23
1-50023	record keeping/maintenance procedures	24
1-50023	record keeping/maintenance procedures	25
1-50023	record keeping/maintenance procedures	26
1-50023	record keeping/maintenance procedures	27
1-50023	record keeping/maintenance procedures	28
1-50023	record keeping/maintenance procedures	29
FACILITY	record keeping/maintenance procedures	4
FACILITY	record keeping/maintenance procedures	5
FACILITY	record keeping/maintenance procedures	6
1-50023	record keeping/maintenance procedures	12
1-50023	record keeping/maintenance procedures	13
1-50023	record keeping/maintenance procedures	14
1-50023	record keeping/maintenance procedures	15

Basis for Monitoring

40 CFR 63-T.467 requires record keeping of the halogenated HAP solvent content and estimates of annual solvent consumption of each solvent used .