



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

**Permit ID: 4-4224-00001/00103**

**Renewal Number: 2**

**12/08/2017**

**Facility Identification Data**

Name: GE GLOBAL RESEARCH CENTER

Address: 1 RESEARCH CIR

NISKAYUNA, NY 12309

**Owner/Firm**

Name: GENERAL ELECTRIC COMPANY

Address: 33-41 Farnsworth St

Boston, MA 02210, USA

Owner Classification: Corporation/Partnership

**Permit Contacts**

Division of Environmental Permits:

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Air Permitting Contact:

Name: David West

Address: G E GLOBAL RESEARCH

1 RESEARCH CIR

NISKAYUNA, NY 12309

Phone:5183877289

**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**

Application for renewal of Air Title V Facility.

**Attainment Status**



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GE GLOBAL RESEARCH CENTER is located in the town of NISKAYUNA in the county of SCHENECTADY.

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.)

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

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

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

**Facility Description:**

The General Electric Global Research Center facility located in Niskayuna N.Y., is one of the world's largest and most diversified industrial laboratories. In addition to industrial R&D, the facility conducts a significant amount of bioscience research, both in vitro and in vivo. The Global Research Center supports all of GE's businesses, as well as other customers. The laboratories comprising the facility execute programs in main areas, including: ceramics, chemical process technology, control systems and electronic technologies, electronic systems, engineering mechanics, environmental, industrial electronics, information technology, manufacturing technology, materials characterization, mechanical systems, physical metallurgy and polymer and inorganic systems. The principal SIC code for the facility represents commercial R&D activities. In addition, the facility has an onsite boiler house which supplies most of the site's heating needs.

**Permit Structure and Description of Operations**

The Title V permit for GE GLOBAL RESEARCH CENTER

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

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants



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that is not included in the above categories.

GE GLOBAL RESEARCH CENTER is defined by the following emission unit(s):

Emission unit A10000 - This emission unit consists of miscellaneous small combustion units with design heat inputs less than 20 MMBtu/hr each that are exhausted through emission points which serve only these combustion units. Four of the sources are located in or adjacent to the Engineering Systems Building (#4), one boiler is located in the Lodge (#11). One unit, a hot water heater, is located in K-1 (#1).

Emission unit A10000 is associated with the following emission points (EP):  
17657, 17658, A1001, A1003

Process: A01 is located at Building 4 - This process consists of miscellaneous small combustion units (<20MMBtu/hr) burning only natural gas. There are 5 units (<10 MMBtu/hr) with SCC code 1-03-006-03 and 1 unit (10-100 MMBtu/hr) with SCC Code 1-03-006-02.

Emission unit B18201 - This emission unit consists of five package boilers located in the Boiler House (Building #6) routed to a common stack. The boilers have the following design heat input ratings: Boiler Numbers 1, 2, and 3: 32.7 MMBtu/hr each, Boiler Number 4: 65.6 MMBtu/hr, and Boiler Number 5: 60 MMBtu/hr. Boiler Numbers 1, 2, 3 and 5 are capable of burning either natural gas or fuel oil. Boiler Number 4 is capable of burning only fuel oil and incapable of being retrofitted to burn natural gas. Two processes (B01, B02) were defined for this emission unit consisting of burning No. 6 fuel oil, natural gas.

Emission unit B18201 is associated with the following emission points (EP):  
18201

Process: B01 is located at 1st, Building 6 - Boiler Nos. 1, 2, 3, 4 and 5 are all capable of firing fuel oil. This process was created to allow the burning of No. 6 fuel oil in any of the boilers

Process: B02 is located at 1st, Building 6 - Only Boiler Nos. 1, 2, 3 and 5 are capable of burning natural gas. This process was created to allow the burning of natural gas in Boiler Nos. 1, 2, 3 and 5.

Emission unit E17624 - This emission unit consists of equipment located in the Metallurgy and Ceramics (MET) Building, and associated air emission control equipment, including 5 existing thermal spray cells. The spray cells are used for spray forming using materials that include metal-based alloys, and metal and ceramic powders. Dust collectors, which are integral to the processes, are used to control particulate emissions exhausted from the spray cells. Thermal spray processes include plasma arc and High Velocity Oxy-Fuel (HVOF). The HVOF process uses fuels such as hydrogen, natural gas, and C3/C4 liquefied hydrocarbons. The spray processes are conducted for R&D purposes, but may be used occasionally for limited-scale manufacturing. Therefore, two processes (E21 and E22) are used to define these activities.

Emission unit E17624 is associated with the following emission points (EP):  
17602, 17624, 17626, 17628

Process: E21 is located at NE corner, Building 2 - This process consists of the spray cells operating in a R&D mode.

Process: E22 is located at NE corner, Building 2 - This process consists of the spray cells operating in a



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manufacturing mode.

Emission unit H17659 - This emission unit consists of one 28 MMBtu/hour natural gas fired indirect air preheater located in the Engineering Systems Building (#4) that is used to supply heated combustion air to the combustion test cell operations. Since this air preheater is only capable of burning natural gas, only one process was defined (H01).

Emission unit H17659 is associated with the following emission points (EP):  
17659

Process: H01 is located at Test Cell Roof, Building 4 - This process consists of one air preheater associated with the test cells. It is only capable of burning natural gas.

Emission unit I19000 - This emission unit is a non-chromium electroplating process that includes two (2) electrolytic plating tanks. Polypropylene balls are used to reduce misting, and the tanks are fitted with covers to further reduce emissions during plating operations.

One of the electroplating tanks (TANK1) is subject to 40 CFR Part 63, Subpart WWWW. The second electroplating tank (TANK2) is a very small bench-top operation that is not subject to Subpart WWWW due to the exclusion of bench-top operations.

Emission unit I19000 is associated with the following emission points (EP):  
17004, 17015

Process: I01 is located at Building 1 - This process consists of non-chromium electroplating in a single tank. The tank is equipped with a cover that is used during plating operations to minimize emissions.

Process: I02 is located at Building 1 - This process consists of a bench-top electroplating bath that is not subject to 40 CFR Part 63 Subpart WWWW.

Emission unit P17021 - This emission unit consists of a paint spray booth and associated paint filter located in the Main R&D Building K-1 (#1) used for limited-volume coating of miscellaneous metal parts, metal furniture, and wood finishing. Metal furniture coating is done solely for on-site maintenance purposes. No painting is done as a part of a manufacturing or retail operation. Two processes (P01 and P02) were defined representing painting with VOC compliant coatings and with Department-approved specialty coatings.

Emission unit P17021 is associated with the following emission points (EP):  
17021

Process: P01 is located at 1S16, Building 1 - This process consists of utilizing volatile organic compound (VOC) compliant coatings (in compliance with 6 NYCRR 228-1.4) in the spray paint booth.

Process: P02 is located at 1S16, Building 1 - This process consists of utilizing up to 55 gallons per year of specialty coatings approved by the Department as defined in 6 NYCRR 228 in the spray paint booth.

Emission unit S17260 - This emission unit consists of operations associated with the VLSI and PSF "clean room" operations located in the K-West Building (#10). Both electronic systems research and



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polymer studies are conducted in the building. The VLSI process area consists of equipment capable of being used to conduct electronics research and limited manufacturing in the areas of GE-proprietary detector development, multi-chip modules, silicon, and silicon carbide. Each of these processes exhausts through one of four stacks. This emission unit represents the grouping of existing permits for former "emission point" nos. 17259 and 17260. The clean rooms are normally used for R&D, but potentially could be used for limited-scale manufacturing. Two processes (S01 and S02) were defined to represent these activities.

Emission unit S17260 is associated with the following emission points (EP):  
 17250, 17251, 17252, 17253

Process: S01 is located at Clean Rooms, Building 10 - This process consists of conducting research in the VLSI and PSF "clean room" operations.

Process: S02 is located at Clean Rooms, Building 10 - This process consists of conducting limited manufacturing in the VLSI and PSF "clean-room" operations.

**Title V/Major Source Status**

GE GLOBAL RESEARCH CENTER is subject to Title V requirements. This determination is based on the following information:

This facility has the potential to be major for NOx, CO, and SO2. The facility has capped out of being major for VOC and HAP.

**Program Applicability**

The following chart summarizes the applicability of GE GLOBAL RESEARCH CENTER with regards to the principal air pollution regulatory programs:

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



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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, 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 212-3, 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



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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**

2821	PLASTICS MATERIALS AND RESINS
3511	TURBINES AND TURBINE GENERATOR
3844	X-RAY APPARATUS AND TUBES
3845	ELECTROMEDICAL EQUIPMENT
8731	COMMERCIAL PHYSICAL RESEARCH
3674	SEMICONDUCTORS & RELATED DEVICES
3724	AIRCRAFT ENGINES & ENGINE PART

**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**

1-03-004-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - RESIDUAL OIL Grade 6 Oil
1-03-006-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
1-03-006-03	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS Less Than 10 MMBtu/Hr
3-09-010-97	FABRICATED METAL PRODUCTS FABRICATED METAL PRODUCTS - ELECTROPLATING OPERATIONS Other Not Classified
3-09-040-20	FABRICATED METAL PRODUCTS FABRICATED METAL PRODUCTS - METAL DEPOSITION PROCESSES Plasma Arc Spraying of Powdered Metal
3-13-065-05	ELECTRICAL EQUIPMENT ELECTRICAL EQUIPMENT - SEMICONDUCTOR MANUFACTURING
4-02-001-10	PHOTORESIST OPERATIONS: GENERAL SURFACE COATING OPERATIONS SURFACE COATING APPLICATION - GENERAL Paint: Solvent-Base
4-02-002-10	SURFACE COATING OPERATIONS SURFACE COATING APPLICATION - GENERAL Paint: Water-Base



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**Facility Emissions Summary**

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. 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.

<b>Cas No.</b>	<b>Contaminant</b>	<b>PTE lbs/yr</b>	<b>PTE tons/yr</b>	<b>Actual lbs/yr</b>	<b>Actual tons/yr</b>
000092-52-4	1, 1 BIPHENYL	20000			
000079-34-5	1,1,2,2-TETRACHLOROETHANE	20000			
000076-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	20000			
000057-14-7	1,1-DIMETHYLHYDRAZINE	20000			
000120-82-1	1,2,4-TRICHLOROBENZENE	20000			
000084-74-2	1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER	20000			
000120-80-9	1,2-BENZENEDIOL	20000			
000107-06-2	1,2-DICHLOROETHANE	20000			
000107-21-1	1,2-ETHANEDIOL	20000			
000095-80-7	1,3-BENZENEDIAMINE, 4-METHYLENE-	20000			
000106-99-0	1,3-BUTADIENE	20000			
000126-99-8	1,3-BUTADIENE, 2-CHLORO-	20000			
000085-44-9	1,3-ISOBENZOFURANDIONE	20000			
000123-31-9	1,4-BENZENEDIOL	20000			
000123-91-1	1,4-DIETHYLENE DIOXIDE		0.000018		
000098-86-2	1-PHENYLETHANONE	20000			





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000542-75-6	NE 1-PROPENE, 1,3- DICHLORO-	20000	
001746-01-6	2,3,7,8- TETRACHLOROD IBENZO-P- DIOXIN	20000	
000121-14-2	2,4, DINITRO TOLUENE	20000	
000051-28-5	2,4, DINITROPHENOL	20000	
000088-06-2	2,4,6 TRICHLOROPHE NOL	20000	
000108-31-6	2,5 - FURANDIONE	20000	
000053-96-3	2- ACETYLAMINOF LUORENE	20000	
000078-59-1	2-CYCLOHEXEN- 1-ONE,3,5,5- TRIMETHYL	20000	
000105-60-2	2H-AZEPIN-2- ONE,HEXAHYDR O	20000	
000095-48-7	2-METHYL- PHENOL	20000	
000108-10-1	2-PENTANONE, 4- METHYL	20000	
000107-98-2	2-PROPANOL, 1- METHOXY	20000	
000079-10-7	2-PROPENOIC ACID	20000	
000080-62-6	2-PROPENOIC ACID, 2-METHYL- , METHYL ESTER	20000	
000140-88-5	2-PROPENOIC ACID, ETHYL ESTER	20000	
000091-94-1	3,3'- DICHLOROBENZI DINE	20000	
000119-90-4	3,3'- DIMETHOXYBEN ZIDINE	20000	
000107-05-1	3-CHLORO-1- PROPENE	20000	
000101-77-9	4,4'- DIAMINODIPHEN YLMETHANE	20000	
000101-14-4	4,4-METHYLENE BIS(2- CHLOROANILINE )	20000	
000092-93-3	4- NITROBIPHENYL	20000	
000075-07-0	ACETALDEHYDE	20000	
000060-35-5	ACETAMIDE	20000	
000064-19-7	ACETIC ACID	20000	4.15
006923-52-0	ACETIC ACID ANITIMONY SALT	20000	
000108-05-4	ACETIC ACID	20000	



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000079-11-8	ETHENYL ESTER ACETIC ACID, CHLORO	20000	
000071-48-7	ACETIC ACID, COBALT SALT	20000	
000301-04-2	ACETIC ACID, LEAD(2+) SALT	20000	
000373-02-4	ACETIC ACID, NICKEL (2+) SALT	20000	
006018-89-9	ACETIC ACID, NICKEL (2+) SALT, TETRAHYDRATE	20000	
000075-05-8	ACETONITRILE	20000	
000107-02-8	ACROLEIN	20000	
000532-27-4	ALPHA- CHLOROACETOP HENONE	20000	
000062-53-3	ANILINE	20000	
001309-64-4	ANTIMONY TRIOXIDE	20000	
007784-42-1	ARSINE	20000	
001332-21-4	ASBESTOS	20000	
000075-55-8	AZIRIDINE, 2- METHYL	20000	
000090-04-0	BENZENAMINE, 2-METHOXY	20000	
000095-53-4	BENZENAMINE, 2-METHYL	20000	
000121-69-7	BENZENAMINE, N, N-DIMETHYL	20000	
000071-43-2	BENZENE	20000	
000098-82-8	BENZENE, (1- METHYLETHYL)	20000	
000095-50-1	BENZENE, 1,2- DICHLORO	20000	4.07
026471-62-5	BENZENE, 1,3- DIISOCYANATO METHYL	20000	
000106-46-7	BENZENE, 1,4- DICHLORO-	20000	
000584-84-9	BENZENE, 2,4- DIISOCYANATO- 1-METHYL-	20000	
000098-07-7	BENZENE, TRICHLOROMET HYL	20000	
000092-87-5	BENZIDINE	20000	
000050-32-8	BENZO(A)PYREN E	20000	
000100-44-7	BENZYL CHLORIDE	20000	
007440-41-7	BERYLLIUM	20000	
000057-57-8	BETA- PROPIOLACTONE	20000	
000117-81-7	BIS(2- ETHYLHEXYL) PHTHALATE	20000	
013814-96-5	BORATE(1-), TETRAFLUORO-, LEAD(2+)	20000	
000353-59-3	BROMOCHLORO	20000	



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	DIFLUOROMETHANE		
000075-25-2	BROMOFORM	20000	
000071-36-3	BUTANOL		4.07
007440-43-9	CADMIUM	20000	
000543-90-8	CADMIUM ACETATE	20000	
000051-79-6	CARBAMIC ACID, ETHY ESTER	20000	
000079-44-7	CARBAMIC CHLORIDE, DIMETHYL	20000	
000075-15-0	CARBON DISULFIDE	20000	
000630-08-0	CARBON MONOXIDE		20000
000056-23-5	CARBON TETRACHLORIDE	20000	
000463-58-1	CARBONYL SULFIDE	20000	
007440-46-2	CESIUM	20000	
007782-50-5	CHLORINE		0.026
000108-90-7	CHLOROBENZENE	20000	
000075-45-6	CHLORODIFLUOROMETHANE	20000	
000067-66-3	CHLOROFORM	20000	
000076-15-3	CHLOROPENTAFLUOROETHANE	20000	
000075-72-9	CHLOROTRIFLUOROMETHANE	20000	
001308-38-9	CCLF3	20000	
007440-47-3	CHROME (III) OXIDE		0.0076
001066-30-4	CHROMIUM ACETATE	20000	
012012-35-0	CHROMIUM CARBIDE	20000	
021679-31-2	CHROMIUM,TRIS (2,4-PENTANEDIONATO-O,O')-(OC-6-11)-	20000	
007440-48-4	COBALT		0.0078
014763-77-0	COPPER CYANIDE	20000	
001319-77-3	CRESYLIC ACID		0.000041
000156-62-7	CYANAMIDE, CALCIUM SALT (1:1)	20000	
000132-64-9	DIBENZOFURAN	20000	
000075-71-8	DICHLORODIFLUOROMETHANE	20000	
000075-09-2	DICHLOROMETHANE		0.096
000627-53-2	DIETHYL SELENIDE	20000	
000096-48-0	DIHYDRO 2(3H)-FURANONE		0.00068
000131-11-3	DIMETHYL PHTHALATE	20000	
000067-64-1	DIMETHYL		5.58



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000067-68-5	KETONE DIMETHYL SULFOXIDE		4.17
034590-94-8	DIPROPYLENE GLYCOL	20000	
000811-97-2	METHYL ETHER ETHANE, 1,1,1,2-	20000	
000071-55-6	TETRAFLURO ETHANE, 1,1,1-	20000	
000079-00-5	TRICHLORO ETHANE, 1,1,2-	20000	
000075-34-3	TRICHLORO ETHANE, 1,1-	20000	
000075-37-6	DICHLORO- ETHANE, 1,1-	20000	
000111-44-4	DIFLUORO- ETHANE, 1,1'-	20000	
000106-93-4	OXYBIS 2- CHLORO ETHANE, 1,2-	20000	
000306-83-2	DIBROMO ETHANE, 2,2-	20000	
000075-00-3	DICHLORO-1,1- TRIFLUORO- ETHANE,	20000	
000067-72-1	CHLORO ETHANE,	20000	
000111-42-2	HEXACHLORO ETHANOL, 2,2'-	20000	
000111-76-2	IMINO BIS- ETHANOL, 2-	20000	
000075-35-4	BUTOXY- ETHENE, 1,1-	20000	
000510-15-6	DICHLORO ETHYL 4,4'- DICHLOROBENZI	20000	
000064-17-5	LATE ETHYL ALCOHOL (ETHANOL)		4.08
000106-88-7	ETHYL OXIRANE	20000	
000100-41-4	ETHYLBENZENE	20000	
000079-06-1	ETHYLENE CARBOXAMIDE	20000	
000075-21-8	ETHYLENE OXIDE	20000	
000096-45-7	ETHYLENE THIOUREA	20000	
000151-56-4	ETHYLENEIMINE	20000	
000050-00-0	FORMALDEHYDE	20000	
000068-12-2	FORMAMIDE, N,N-DIMETHYL	20000	
008006-61-9	GASOLINE	375	
000110-54-3	HEXANE	20000	
000822-06-0	HEXANE, 1,6- DIISOCYANATO-	20000	
000302-01-2	HYDRAZINE	20000	
000074-90-8	HYDROCYANIC ACID	20000	
007647-01-0	HYDROGEN CHLORIDE		1.39
007664-39-3	HYDROGEN FLUORIDE	20000	
000122-66-7	HYRAZINE, 1,2 -	20000	



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000067-63-0	DIPHENYL ISOPROPYL ALCOHOL		5.56
007439-92-1	LEAD	20000	
007439-96-5	MANGANESE		0.0015
000638-38-0	MANGANESE ACETATE	20000	
007487-94-7	MERCURY CHLORIDE	20000	
022967-92-6	MERCURY(1+), METHYL-	20000	
000062-75-9	METHANAMINE, N-METHYL-N- NITROSO	20000	
000075-59-2	METHANAMINIU M N,N,N- TRIMETHYL- HYDROXIDE		0.014
000075-63-8	METHANE, BROMOTRIFLUO RO- CBRF3	20000	
000542-88-1	METHANE, OXYBIS (CHLORO)	20000	
000075-69-4	METHANE, TRICHLOROFLUO RO-	20000	
000072-43-5	METHOXYCHLO R	20000	
000067-56-1	METHYL ALCOHOL		4.09
000074-83-9	METHYL BROMIDE	20000	
000074-87-3	METHYL CHLORIDE	20000	
000107-30-2	METHYL CHLOROMETHYL ETHER	20000	
000078-93-3	METHYL ETHYL KETONE	20000	
000060-34-4	METHYL HYDRAZINE	20000	
000074-88-4	METHYL IODIDE	20000	
000624-83-9	METHYL ISOCYANATE	20000	
001634-04-4	METHYL TERTBUTYL ETHER	20000	
000101-68-8	METHYLENE BISPHENYL ISOCYANATE	20000	
000121-44-8	N,N-DIETHYL ETHANAMINE	20000	
000091-20-3	NAPHTHALENE	20000	
013463-39-3	NICKEL CARBONYL	20000	
007718-54-9	NICKEL CHLORIDE	20000	
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS		0.014
001313-99-1	NICKEL OXIDE	20000	
000098-95-3	NITROBENZENE	20000	



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000059-89-2	NITROSOMORPH OLINE	20000	
000684-93-5	NITroso-N- METHYLUREA	20000	
000119-93-7	O-TOLIDINE	20000	
0NY210-00-0	OXIDES OF NITROGEN	275000	
000106-89-8	OXIRANE, (CHLOROMETHY L)	20000	
000092-67-1	P- AMINODIPHENY L	20000	
000100-02-7	PARA- NITROPHENOL	20000	
0NY075-00-0	PARTICULATES	100000	
000082-68-8	PENTACHLORON ITROBENZENE	20000	
000540-84-1	PENTANE, 2,2,4- TRIMETHYL-	20000	
000127-18-4	PERCHLOROETH YLENE	20000	
000108-95-2	PHENOL	20000	
000534-52-1	PHENOL, 2- METHYL-4,6- DINITRO	20000	
000108-39-4	PHENOL, 3- METHYL	20000	
000106-44-5	PHENOL, 4- METHYL	20000	
000087-86-5	PHENOL, PENTACHLORO	20000	
000075-44-5	PHOSGENE	20000	
007803-51-2	PHOSPHINE		0.023
000680-31-9	PHOSPHORIC TRIAMIDE, HEXAMETHYL	20000	
000056-38-2	PHOSPHOROTHI OIC ACID, O,O- DIETHYL O-(4- NITROPHENYL) ESTER	20000	
007723-14-0	PHOSPHORUS (YELLOW)		2.0E-6
0NY075-00-5	PM-10	20000	
001336-36-3	POLYCHLORINA TED BIPHENYL	20000	
000106-50-3	P- PHENYLENEDIA MINE	20000	
001120-71-4	PROPANE	20000	
000096-12-8	SULTONE PROPANE, 1,2- DIBROMO-3- CHLORO	20000	
000078-87-5	PROPANE, 1,2- DICHLORO	20000	
000075-56-9	PROPANE, 1,2- EPOXY-	20000	
000079-46-9	PROPANE, 2- NITRO	20000	
000071-23-8	PROPANOL		0.015
025498-49-1	PROPANOL,[2-(2-	20000	



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	METHOXYMETH		
	YLETHOXY)MET		
	HYLETHOXY]-		
000107-13-1	PROPENENITRILE	20000	
000123-38-6	PROPIONALDEH	20000	
	YDE		
000091-22-5	QUINOLINE	20000	
000106-51-4	QUINONE	20000	
000143-33-9	SODIUM	20000	
	CYANIDE		
000100-42-5	STYRENE	20000	
000096-09-3	STYRENE OXIDE	20000	
013770-89-3	SULFAMIC ACID,	20000	
	NICKEL(2+) SALT		
	(2:1)		
007446-09-5	SULFUR DIOXIDE	20000	
000064-67-5	SULFURIC ACID,	20000	
	DIETHYL ESTER		
000077-78-1	SULFURIC ACID,	20000	
	DIMETHYL		
	ESTER		
007786-81-4	SULFURIC ACID,	20000	
	NICKEL(2+) SALT		
	(1:1)		
000075-73-0	TETRAFLUORO		0.11
	METHANE		
007550-45-0	TITANIUM	20000	
	TETRACHLORIDE		
000108-88-3	TOLUENE		4.25
0NY100-00-0	TOTAL HAP	50000	
000079-01-6	TRICHLOROETH	20000	
	YLENE		
000095-95-4	TRICHLOROPHE	20000	
	NOL, 2,4,5		
000075-46-7	TRIFLUOROMET		0.07
	HANE		
000593-60-2	VINYL BROMIDE	20000	
000075-01-4	VINYL	20000	
	CHLORIDE		
0NY998-00-0	VOC	100000	
001330-20-7	XYLENE, M, O &		0.0013
	P MIXT.		

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

Owners and/or operators of facilities having an issued Title V permit shall submit a



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complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

- Item C: Certification by a Responsible Official - 6 NYCRR 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 D: 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 E: 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 F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4(a)(5)**  
It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.
- Item G: Property Rights - 6 NYCRR 201-6.4(a)(6)**  
This permit does not convey any property rights of any sort or any exclusive privilege.
- Item H: Severability - 6 NYCRR 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 I: 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:





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

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

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

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

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for



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violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

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

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

**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.
- (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\_02

**Item B: General Provisions for State Enforceable Permit Terms and Condition - 6**



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**NYCRR Part 201-5**

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

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

**Regulatory Analysis**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Regulation</b>	<b>Condition</b>	<b>Short Description</b>
FACILITY	ECL 19-0301	97	Powers and Duties of the Department with respect to air pollution control
H-17659/17659/H01/AP300	40CFR 60-A	76	General provisions
P-17021/17021	40CFR 60-A	94	General provisions
H-17659/17659/H01/AP300	40CFR 60-A.4	77	General provisions - Address
P-17021/17021	40CFR 60-A.4	95	General provisions - Address
H-17659	40CFR 60-Dc.48c(g)(2)	74	Alternative recordkeeping
H-17659/17659/H01/AP300	40CFR 60-Dc.48c(i)	78	Reporting and Recordkeeping Requirements.
P-17021/17021	40CFR 60-EE.310(c)	96	Metal furniture mfg using over 1000 gallons of coating/year constructed after 11/28/80
FACILITY	40CFR 61-M	48	Asbestos standards for: asbestos mills, manufacturing operations using asbestos, and other sources
FACILITY	40CFR 63-CCCCC.11116	49	Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline
FACILITY	40CFR 63-JJJJJJ	50	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and



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E-17624	40CFR 63- WWWWWW.11507(f)	63	Institutional Boilers Area Sources Existing Permanent Thermal Spraying Operation Requirements
I-19000/-/I01	40CFR 63- WWWWWW.11507(g)	80	Plating and Polishing Requirements
I-19000/-/I01	40CFR 63- WWWWWW.11508(c)	81	Tank Covering Initial Compliance - Batch Process
E-17624	40CFR 63- WWWWWW.11508(c)	64	Existing Permanent Thermal Spraying Initial Compliance
E-17624	40CFR 63- WWWWWW.11508(d)	65	Operation and Maintenance of Air Pollution Equipment
I-19000/-/I01	40CFR 63- WWWWWW.11508(d)	82	Operation and Maintenance of Air Pollution Equipment
E-17624	40CFR 63- WWWWWW.11508(d)	66	Annual Compliance Certification
I-19000/-/I01	40CFR 63- WWWWWW.11508(d)	83	Annual Compliance Certification
E-17624	40CFR 63- WWWWWW.11508(d)	67	Control System Continuous Compliance
I-19000/-/I01	40CFR 63- WWWWWW.11508(d)	84	Batch and Flash or Short-Term Tank Continuous Compliance - Tank Covering
I-19000/-/I01	40CFR 63- WWWWWW.11508(d)	85	Management Practice Continuous Compliance
E-17624	40CFR 63- WWWWWW.11509(c)	68	Control System Annual Compliance Report
I-19000/-/I01	40CFR 63- WWWWWW.11509(c)	86	Batch and Flash or Short-Term Annual Compliance Report - Tank Covering
I-19000/-/I01	40CFR 63- WWWWWW.11509(c)	87	Management Practices Annual Compliance Report
E-17624	40CFR 63- WWWWWW.11509(c)	69	Annual Compliance Report
I-19000/-/I01	40CFR 63- WWWWWW.11509(c)	88	Annual Compliance Report
E-17624	40CFR 63- WWWWWW.11509(d)	70	Deviations
I-19000/-/I01	40CFR 63- WWWWWW.11509(d)	89	Deviations
E-17624	40CFR 63- WWWWWW.11509(e)	71	Recordkeeping Requirements
I-19000/-/I01	40CFR 63- WWWWWW.11509(e)	90	Recordkeeping Requirements
E-17624	40CFR 63- WWWWWW.11509(f)	72	Availability of Records
I-19000/-/I01	40CFR 63- WWWWWW.11509(f)	91	Availability of Records
FACILITY	40CFR 63-ZZZZ.6590(c)	51	Reciprocating Internal Combustion Engine (RICE) NESHAP - Stationary RICE subject to Regulations under 40 CFR Part 60



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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	98	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, 52, 53	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
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)	23, 24	Operational Flexibility
FACILITY	6NYCRR 201-6.4(f)(6)	17	Off Permit Changes
FACILITY	6NYCRR 201-7	25, 54	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
FACILITY	6NYCRR 202-1.2	28	Notification.
FACILITY	6NYCRR 202-1.3(a)	29	Acceptable procedures - reference methods
FACILITY	6NYCRR 202-1.5	30	Prohibitions.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.3	31	Emission Statement - Required contents of an emission statement.



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FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 207	32	Control Measures for an Air Pollution Episode
FACILITY	6NYCRR 211.1	33	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	99	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 212-1.6(a)	34	Limiting of Opacity Requirements
E-17624/-/E22	6NYCRR 212-2.1	101, 102	Requirements
S-17260/-/S02	6NYCRR 212-2.1	105	HTACs applicable to Table 212-2.3 Table 4
I-19000	6NYCRR 212-2.1(a)	104	Conditions should be cited under Table 3 or Table 4, 212-2.3 (a) or (b)
I-19000	6NYCRR 212-2.1(b)	79	State Air Program Non-Criteria air contaminants subject Table 4
E-17624/-/E22	6NYCRR 212-2.3(b)	103	State Air Program Non-Criteria air contaminants subject Table 4
S-17260/-/S02	6NYCRR 212-2.3(b)	106	State Air Program Non-Criteria air contaminants subject Table 4
E-17624/-/E22	6NYCRR 212-2.4(b)	73	Control of Particulate from New and Modified Process Emission Sources
FACILITY	6NYCRR 212-3.1(c)(1)	35	Required Compliance Plans for applicable 212-3 emission sources
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.2	36	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 225-1.6(e)	37	Data Retention
FACILITY	6NYCRR 225-2.6(c)	38	Sale or use of waste fuels A and B.
FACILITY	6NYCRR 226	39	SOLVENT METAL CLEANING PROCESSES
B-18201/18201/B01	6NYCRR 227-1.2(a)(2)	100	Particulate Emissions Firing Liquid Fuels Excluding Distillate Oil. (see narrative)
B-18201/18201	6NYCRR 227-1.3	57	Smoke Emission Limitations.
FACILITY	6NYCRR 227-1.3(a)	40	Smoke Emission Limitations.
A-10000	6NYCRR 227-1.3(a)	55	Smoke Emission Limitations.
B-18201/18201	6NYCRR 227-1.3(a)	58	Smoke Emission Limitations.
H-17659/-/H01/AP300	6NYCRR 227-1.3(a)	75	Smoke Emission Limitations.
FACILITY	6NYCRR 227-1.6(b)	41	Corrective Action: Facility Shutdown.
FACILITY	6NYCRR 227-1.6(c)	42	Corrective Action: Facility Shutdown



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FACILITY	6NYCRR 227-1.6(d)	43	Prohibitions. Corrective Action: Facility Shutdown Prohibitions.
B- 18201/18201/B02/BL500	6NYCRR 227- 2.4(c)(1)(ii)	61	2010 NOx RACT presumptive limit.
B- 18201/18201/B01/BL500 FACILITY	6NYCRR 227-2.4(c)(2) 6NYCRR 227-2.4(d)	59 44	NOx requirements.  Small boilers, small combustion turbines, and small stationary internal combustion engines.
FACILITY	6NYCRR 227-2.5(a)	45, 46	Fuel switching option.
B- 18201/18201/B01/BL400	6NYCRR 227-2.5(a)	60	Fuel switching option.
P-17021/-/P01	6NYCRR 228-1.3(a)	93	Surface Coating General Requirements- Opacity
FACILITY	6NYCRR 230.5(a)	47	Gasoline Dispensing Sites - Recordkeeping and Reporting.

**Applicability Discussion:**

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

ECL 19-0301

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

6 NYCRR 200.6

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

6 NYCRR 200.7

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

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department



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representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.4 (a) (4)

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

6 NYCRR 201-6.4 (a) (7)

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

6 NYCRR 201-6.4 (a) (8)

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

6 NYCRR 201-6.4 (c)

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

6 NYCRR 201-6.4 (c) (2)

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





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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

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

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable



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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, GE GLOBAL RESEARCH CENTER has been determined to be subject to the following regulations:

40 CFR 60.310 (c)

40 CFR 60.4

This condition lists the USEPA Region 2 address for the submittal of all communications to the "Administrator". In addition, all such communications must be copied to NYSDEC Bureau of Quality Assurance (BQA).

40 CFR 60.48c (g) (2)

This regulation allows the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO<sub>2</sub> standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

40 CFR 60.48c (i)

This regulation requires the source owner or operator to retain all records for a minimum of two years for compliance with the NSPS. This does not supercede any requirement that is more stringent, including the Title V requirement to maintain records for for a minimum of 5 years.

40 CFR 63.11116

40 CFR 63.11507 (f) (1)

Requirements for existing permanent thermal spraying operations using a water curtain, fabric filter, or high efficiency particulate air filter to control emissions

40 CFR 63.11507 (g)



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Requirements for plating and polishing process units

40 CFR 63.11508 (c) (3)

Initial compliance requirements for batch processes using tank covers

40 CFR 63.11508 (c) (9)

Initial compliance requirements for existing permanent thermal spraying operations

40 CFR 63.11508 (d) (1)

Operation and Maintenance of Air Pollution Equipment

40 CFR 63.11508 (d) (2)

Annual Compliance Certification

40 CFR 63.11508 (d) (4)

Continuous compliance requirements for tanks using a control system to limit emissions

40 CFR 63.11508 (d) (6)

Continuous compliance requirements for batch process tanks and flash or short-term tanks complying with WWWW by covering tanks

40 CFR 63.11508 (d) (8)

Continuous compliance requirements for operations subject to management practices

40 CFR 63.11509 (c) (2)

Requirements for submitting annual compliance report for operations using a control system

40 CFR 63.11509 (c) (4)

Requirements for submitting annual compliance report for batch and flash or short-term



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operations complying with WWWW by covering tanks

40 CFR 63.11509 (c) (6)

Requirements for submitting annual compliance report for operations subject to management practices

40 CFR 63.11509 (c) (7)

Requirements for when to submit annual compliance reports

40 CFR 63.11509 (d)

Reporting requirements for deviations

40 CFR 63.11509 (e)

Recordkeeping Requirements

40 CFR 63.11509 (f)

Requirements for where records can be stored

40 CFR 63.6590 (c)

This regulation states that an affected source that is a new or reconstructed stationary RICE located at an area source must meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR Part 60 Subpart JJJJ, for spark ignition engines.

40 CFR Part 60, Subpart A

This regulation contains the General Provisions of 40 CFR 60. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements

40 CFR Part 61, Subpart M

This is the National Emission Standard for Asbestos and it includes provisions for handling and disposing of asbestos.



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40 CFR Part 63, Subpart JJJJJ

This regulation covers facilities that own or operate an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP), as defined in §63.2, except as specified in §63.11195.

6 NYCRR 201-6.4 (f)

This section describes the operational flexibility protocol proposed by the facility. The protocol will allow the facility owner or operator to make certain changes at the facility without the need for a permit modification. Changes made pursuant to the protocol must be approved by the Department, and will be rolled into the permit during the next renewal or modification.

6 NYCRR 202-1.2

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

6 NYCRR 202-1.3 (a)

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

6 NYCRR 202-1.5

This rule prohibits the concealment of an emission by the use of air or other gaseous diluents (diluting agents) to achieve compliance with an emission standard which is based on the concentration of a contaminant in the gases emitted through a stack.

6 NYCRR 202-2.3

This rule specifies the information to be included in a required emission statement.

6 NYCRR 211.1

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

6 NYCRR 212-1.6 (a)



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This provisions requires that the facility owner or operator not cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source or emission point, except for the emission of uncombined water.

6 NYCRR 212-2.1

Emissions of air contaminants to the outdoor atmosphere from any process emission source or emission point are restricted as follows:

(a) For an air contaminant listed in section 212-2.2 table 2 – high toxicity air contaminant list, of this Subpart, the facility owner or operator shall either limit the actual annual emissions from all process operations at the facility so as to not exceed the mass emission limit listed for the individual HTAC; or demonstrate compliance with the air cleaning requirements for the HTAC as specified in subdivision 212-2.3(b), table 4 – degree of air cleaning required for non-criteria air contaminants, of this Subpart for the environmental rating assigned to the contaminant by the department.

(b) For any air contaminant not listed on table 2, unless it is a solid particulate described in subdivision (c) of this section, the facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in subdivision 212-2.3(a), table 3 – degree of air cleaning required for criteria air contaminants of this Subpart, or subdivision 212-2.3(b), table 4 – degree of air cleaning required for non-criteria air contaminants of this Subpart, as applicable, for the environmental rating assigned to the contaminant by the department.

(c) For a solid particulate assigned an environmental rating of B or C emitted from a process emission source, the facility owner or operator shall not allow emissions of particulate to exceed the requirements specified in section 212-2.4 of this Subpart.

6 NYCRR 212-2.1 (a)

This provision is for an air contaminant listed in Section 212-2.2 Table 2 - High Toxicity Air Contaminant List (HTAC). The facility owner or operator must either limit the actual annual emissions from all process operations at the facility so as to not exceed the mass emission limit listed for the individual HTAC; or demonstrate compliance with the air cleaning requirements for the HTAC as specified in Subdivision 212-2.3(b), Table 4.

6 NYCRR 212-2.1 (b)

This provision applies to any air contaminant not listed on the High Toxicity Air Contaminant List (HTAC) and states the facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in Subdivision



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212-2.3(a), Table 3 - or Table 4.

6 NYCRR 212-2.3 (b)

Table 4 of 212-2.3 describes the reduction in emissions required for a non-criteria air contaminant based on its uncontrolled emission rate. The uncontrolled emission rate in conjunction with the assigned environmental rating determines the degree of controlled applied.

6 NYCRR 212-2.4 (b)

Particulate emissions from any process emission source, which received a B or C Environmental Rating, and for which an application was received by the department after July 1, 1973 are restricted to 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis.

6 NYCRR 212-3.1 (c) (1)

6 NYCRR 225-1.2

This section of the regulation establishes sulfur-in-fuel limitations for coal, residual oil, distillate oil, and waste oil.

6 NYCRR 225-1.6 (e)

This citation requires the minimum retention time for records at a subject facility.

6 NYCRR 225-2.6 (c)

This regulation requires that Waste Fuels A or B be sold only to those facilities permitted to handle or use these fuels.

6 NYCRR 227-1.2 (a) (2)

This rule limits particulate emissions to 0.20 pound per million Btu heat input from any stationary combustion installation with a maximum heat input capacity exceeding 50 million Btu per hour but no greater than 250 million Btu per hour using oil (other than distillate oil), coal tar, or any liquid fuel derived from coal.



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6 NYCRR 227-1.3

This regulation requires a limitation and compliance monitoring for opacity from a stationary combustion installation.

6 NYCRR 227-1.3 (a)

This regulation prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

6 NYCRR 227-1.6 (b)

This regulation states that the Department may seal the affected stationary combustion installation that does not comply with the provisions in subdivision 6 NYCRR 227-1.6(a) within the time provided.

6 NYCRR 227-1.6 (c)

This regulation state that no person may operate any affected stationary combustion installation sealed by the commissioner in accordance with this Part 227.

6 NYCRR 227-1.6 (d)

This regulation states that no person except Department personnel may remove, tamper with, or destroy any seal affixed to any affected stationary combustion installation.

6 NYCRR 227-2.4 (c) (1) (ii)

Future NO<sub>x</sub> RACT presumptive limit effective 7/1/14.

6 NYCRR 227-2.4 (c) (2)

NO<sub>x</sub> RACT requirements for mid-size boilers that use fuels other than natural gas, distillate oil, or residual oil.

6 NYCRR 227-2.4 (d)

This section includes NO<sub>x</sub> RACT requirements for small boilers, small combustion turbines, and small stationary internal combustion engines.

6 NYCRR 227-2.5 (a)

Fuel switching NO<sub>x</sub> RACT compliance option.





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6 NYCRR 228-1.3 (a)

This citation prohibits owners or operators of emission sources from allowing emissions to the outdoor atmosphere, which reduce the visibility through the atmosphere by 20 percent or greater for any consecutive six-minute period.

6 NYCRR 230.5 (a)

This section requires record keeping of delivered fuel which must be maintained for two years.

6 NYCRR Part 207

This regulation requires the owner or operator to submit an episode action plan to the Department in accordance with the requirements of 6NYCRR Part 207. The plan must contain detailed steps which will be taken by the facility to reduce air contaminant emissions during each stage of an air pollution episode. Once approved, the facility shall take whatever actions are prescribed by the episode action plan when an air pollution episode is in effect.

6 NYCRR Part 226

This regulation specifies the general requirements, equipment specifications and operating requirements for open-top vapor, conveyORIZED and cold cleaning degreasers.

6 NYCRR Subpart 201-7

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

**Compliance Certification**

**Summary of monitoring activities at GE GLOBAL RESEARCH CENTER:**

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
H-17659/17659/H01/AP300	78	record keeping/maintenance procedures
P-17021/17021	96	record keeping/maintenance procedures
E-17624	63	record keeping/maintenance procedures
I-19000/-/I01	80	record keeping/maintenance procedures
I-19000/-/I01	82	record keeping/maintenance procedures
E-17624	66	record keeping/maintenance procedures
I-19000/-/I01	83	record keeping/maintenance procedures
E-17624	67	record keeping/maintenance procedures
I-19000/-/I01	84	record keeping/maintenance procedures
I-19000/-/I01	85	record keeping/maintenance procedures
E-17624	70	record keeping/maintenance procedures
I-19000/-/I01	89	record keeping/maintenance procedures
E-17624	71	record keeping/maintenance procedures
I-19000/-/I01	90	record keeping/maintenance procedures
E-17624	72	record keeping/maintenance procedures
I-19000/-/I01	91	record keeping/maintenance procedures



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FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	23	record keeping/maintenance procedures
FACILITY	24	record keeping/maintenance procedures
FACILITY	26	monitoring of process or control device parameters as surrogate
FACILITY	27	monitoring of process or control device parameters as surrogate
B-18201	56	work practice involving specific operations
E-17624	62	work practice involving specific operations
P-17021	92	work practice involving specific operations
FACILITY	7	record keeping/maintenance procedures
FACILITY	34	record keeping/maintenance procedures
E-17624/-/E22	101	record keeping/maintenance procedures
E-17624/-/E22	102	record keeping/maintenance procedures
S-17260/-/S02	105	record keeping/maintenance procedures
I-19000	104	record keeping/maintenance procedures
I-19000	79	record keeping/maintenance procedures
E-17624/-/E22	103	record keeping/maintenance procedures
S-17260/-/S02	106	record keeping/maintenance procedures
E-17624/-/E22	73	intermittent emission testing
FACILITY	36	monitoring of process or control device parameters as surrogate
FACILITY	37	record keeping/maintenance procedures
FACILITY	39	record keeping/maintenance procedures
B-18201/18201/B01	100	intermittent emission testing
B-18201/18201	57	record keeping/maintenance procedures
FACILITY	40	monitoring of process or control device parameters as surrogate
A-10000	55	monitoring of process or control device parameters as surrogate
B-18201/18201	58	monitoring of process or control device parameters as surrogate
H-17659/-/H01/AP300	75	monitoring of process or control device parameters as surrogate
B-18201/18201/B02/BL500	61	record keeping/maintenance procedures
B-18201/18201/B01/BL500	59	intermittent emission testing
FACILITY	44	record keeping/maintenance procedures
FACILITY	45	record keeping/maintenance procedures
FACILITY	46	record keeping/maintenance procedures
B-18201/18201/B01/BL400	60	record keeping/maintenance procedures
P-17021/-/P01	93	record keeping/maintenance procedures
FACILITY	47	record keeping/maintenance procedures

**Basis for Monitoring**

GE caps out of PSD for it's boilers in several 6 NYCRR 201-7 conditions. GE tracks fuel consumption to calculate emissions of pollutants associated with boiler use. Due to NYS sulfur restrictions on fuel, the past sulfur Capping condition levels could not be reached, therefor the condition has been removed.

GE caps out of being major for HAP using a 201-7 condition, at the facility by tracking usage of HAP containg products.

GE has a 201-7 capping condition which keeps the facility from being major for VOC emissions. GE tracks VOC usage.

GE operates several coating/ electroplating processes, several monitoring conditions in the permit reflect these operations.

GE has reduced visual method 9 associated with 6 NYCRR 212, of controls associated with the spray



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booths to annual do to redundant control and no visible emissions for several years