**Division of Air Resources**

# Permit Review Report

**Permit ID: 3-1328-00025/01028**
**Renewal Number: 4**
**12/04/2023**

**Facility Identification Data**
Name: OnSemi East Fishkill Facility
Address: 2070 ST RTE 52|HUDSON VALLEY RESEARCH PARK
HOPEWELL JUNCTION, NY 12533

**Owner/Firm**
Name: HUDSON VALLEY RESEARCH PARK SEWAGE WORKS CORPORATION
Address: 2070 RTE 52
HOPEWELL JUNCTION, NY 12533, USA
Owner Classification: Corporation/Partnership

**Permit Contacts**
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## Permit Description

### Introduction

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

**Summary Description of Proposed Project**
Application for the renewal of the existing Air Title V Permit of OnSemi East Fishkill which is formerly known as GlobalFoundries East Fishkill. There have been a couple of changes to the existing facility such as the implementation of new air pollution controls. The new controls consist of an abated acid system and an abated base system which includes four additional air scrubbers (two acid and two base). Potential and

actual emissions for the facility are unchanged.

**Attainment Status**
OnSemi East Fishkill Facility is located in the town of EAST FISHKILL in the county of DUTCHESS. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

| Criteria Pollutant | Attainment Status |
|---|---|
| Particulate Matter (PM) | ATTAINMENT |
| Particulate Matter< 10µ in diameter (PM10) | ATTAINMENT |
| Sulfur Dioxide (SO2) | ATTAINMENT |
| Ozone* | MODERATE 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:**
OnSemi East Fishkill facility is engaged in the development and manufacture of semiconductors for the computer and electronic industries. The emissions of Volatile Organic Compounds (VOCs) and CO2e (including equivalents) are above major source thresholds as defined by the Federal Clean Air Act and therefore the facility is required to obtain a Title V permit.

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

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

OnSemi East Fishkill Facility is defined by the following emission unit(s):

Emission unit B00001 - This emission unit consist of chemical packaging, storage tanks, hazardous waste storage and the Chemical Distribution Center.

Emission unit B00001 is associated with the following emission points (EP):
0NH31, 0NH32, 0T283, 0T284, PTWT1, T3228
Process: 316 is located at Building B/316 - CHEMICAL HANDLING IN B/316

Process: 317 is located at Building B/317 - Chemical Handling B/317

Process: 386 is located at Building B/386 - CHEMICAL HANDLING IN B/386

Emission unit I00001 - This emission unit consists of wafer fabrication in B/323 and B/323A. Building 323 consists of three Regenerative Thermal Oxidizers, five Acid Scrubbers, and four Base Scrubbers. Building 323A consists of two Regenerative Thermal Oxidizer units, three Acid Scrubbers and four Base Scrubbers.

Emission unit I00001 is associated with the following emission points (EP):
00ACD, 00VOC, 01ACD, 01CAS, 02ACD, 02CAS, 03ACD, 03CAS, 03VOC, 04ACD, 04CAS, 05CAS, GEN01, GEN02, GEN03, GEN04, GEN05, GEN06, GEN07, GEN08, GEN09, GEN10, GEN11
Process: 0WF is located at Building B/323 - the operation of eight (8) Acid Scrubbers, eight (8) Base Scrubbers, and five (5) Regenerative Thermal Oxidizers.

Emission unit K00001 - This emission unit consists of controlled collapse chip connection (C4) plating operations, Research & Development (R&D) with manufacturing / production, and Post Fabrication. B/320 (C4) and Post Fab includes 2 Concentrator Thermal Oxidizers, three (3) Acid Scrubbers, and two (2) Base Scrubbers.

Emission unit K00001 is associated with the following emission points (EP):
06CAS, 0BC4A, 0BC4S, 0BS31, BBASE, BCONC, BOXID, C4ACI, C4SOL, CONC1, OXID1
Process: C4P is located at Building B/320B - C4 Plating Line operations.

Emission unit A00001 - This emission unit consists of seven (7) 72 MMBtu/hr natural gas fired boilers (with No. 6 fuel backup for six of the seven boilers).

Emission unit A00001 is associated with the following emission points (EP):
00001, 00002, 00003, 00004, 00005, 00006, 00008

Process: ES2 Combustion of Fuel Oil #2 in exempt sources.

Process: MB6 is located at Building B/315 - Six (6) 72 mmBtu/hr boilers burning No. 6 fuel oil as backup.

Process: MBN is located at Building B/315 - Seven (7) 72 mmBtu/hr boilers firing natural gas.

**Title V/Major Source Status**
OnSemi East Fishkill Facility is subject to Title V requirements. This determination is based on the following information:
OnSemi East Fishkill facility is subject to Title V requirements. This determination is based on the following information:

The potential to emit (PTE) values of Oxides of Nitrogen (NOx), Carbon Monoxide (CO), and CO2e (including equivalents) are above major source thresholds as specified in 6 NYCRR Part 201 and therefore the facility is required to obtain a Title V permit.

**Program Applicability**
The following chart summarizes the applicability of OnSemi East Fishkill Facility with regards to the principal air pollution
regulatory programs:

| Regulatory Program | Applicability |
|---|---|
| PSD | NO |
| NSR (non-attainment) | YES |
| NESHAP (40 CFR Part 61) | NO |
| 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 52.21, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to

major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, 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, 220-1.6, 220-1.7, 220-2.3, 220-2.4, 226, 227-2, 228, 229, 230, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

**Compliance Status**
Facility is in compliance with all requirements.

**SIC Codes**
SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of

activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

| SIC Code | Description |
|---|---|
| 3471 | ELECTROPLATING,POLISHING,ANODIZING, AND COLORING |
| 3674 | SEMICONDUCTORS & RELATED DEVICES |
| 3679 | ELECTRONIC COMPONENTS, NEC |

**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 |
|---|---|
| 1-02-004-02 | EXTERNAL COMBUSTION BOILERS - INDUSTRIAL<br>INDUSTRIAL BOILER - RESIDUAL OIL<br>10-100MMBTU/HR ** |
| 1-02-005-01 | EXTERNAL COMBUSTION BOILERS - INDUSTRIAL<br>INDUSTRIAL BOILER - DISTILLATE OIL<br>Grades 1 and 2 Oil |
| 1-02-006-02 | EXTERNAL COMBUSTION BOILERS - INDUSTRIAL<br>INDUSTRIAL BOILER - NATURAL GAS<br>10-100 MMBtu/Hr |
| 3-13-065-99 | ELECTRICAL EQUIPMENT<br>ELECTRICAL EQUIPMENT - SEMICONDUCTOR MANUFACTURING<br>SEMICONDUCTOR MFG-MISCELLANEOUS OPERATIONS-GENERAL-SPECIFY MATERIAL |
| 4-07-999-97 | ORGANIC CHEMICAL STORAGE<br>ORGANIC CHEMICAL STORAGE - MISCELLANEOUS<br>Specify in Comments |
| 5-03-007-02 | SOLID WASTE DISPOSAL - INDUSTRIAL<br>SOLID WASTE DISPOSAL: INDUSTRIAL - LIQUID WASTE<br>SOLID WASTE DISPOSAL-INDUSTRIAL-LIQUID WASTE TREATMENT-GENERAL |

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

| Cas No. | Contaminant | PTE lbs/yr | PTE tons/yr | Actual lbs/yr | Actual tons/yr |
|---|---|---|---|---|---|
| 000077-92-9 | 1,2,3-PROPANETRICARBOXYLIC ACID,2-HYDROXY | 1200 | | | |
| 000120-80-9 | 1,2-BENZENEDIOL | 50 | | | |
| 000107-21-1 | 1,2-ETHANEDIOL | 4000 | | | |
| 000106-99-0 | 1,3-BUTADIENE | 1 | | | |
| 000123-31-9 | 1,4-BENZENEDIOL | 2 | | | |
| 193810-83-2 | 1H-BENZIMIDAZOLE-1-CARBOXYLIC ACID, 2-PHENYL-, 1,1-DIMETHYLETHYL ESTER | | 1 | | |
| 000872-50-4 | 1-METHYL-2-PYRROLIDONE | 800 | | | |
| 137902-98-8 | 1-NAPHTHALENESULFONIC ACID... | | 1 | | |
| 000121-46-0 | 2,5-NORBORNADIENE | 17.86 | | | |
| 000108-48-5 | 2,6-DIMETHYLPYRIDINE | 0.06 | | | |
| 000128-37-0 | 2,6-DI-TERT-BUTYL-P-CRESOL | 1.23 | | | |
| 000110-43-0 | 2-HEPATANONE | 316.02 | | | |
| 000091-57-6 | 2-METHYL NAPHTHALENE | 0.0833 | | | |
| 000108-11-2 | 2-PENTANOL, 4-METHYL- | 1000 | | | |
| 001569-02-4 | 2-PROPANOL, 1-ETHOXY | 25 | | | |
| 000107-98-2 | 2-PROPANOL, 1-METHOXY | 500 | | | |
| 000108-65-6 | 2-PROPANOL, 1-METHOXY-, ACETATE | | 5 | | |
| 200808-68-0 | 2-PROPENOIC ACID, 1,1-DIMETHYLETHYL ESTER, POLYMER... | | 1 | | |
| 477705-47-8 | 2-PROPENOIC ACID, 2-METHYL-, 9-ANTHRACENYL METHYL ESTER, POLYMER... | | 1 | | |

| | | | | |
|---|---|---|---|---|
| 000080-62-6 | 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER | 1 | | |
| 000056-49-5 | 3-METHYLCHOLANTHRENE | | 0.0062 | |
| 000843-55-0 | 4,4'-CYCLOHEXYLIDENEBISPHENOL | 2.46 | | |
| 000126-86-3 | 5-DECYNE-4,7-DIOL,2,4,7,9-TETRAMETHYL-C14H26O2 | 10.84 | | |
| 000057-97-6 | 7,12-DIMETHYLBENZ[A]ANTHRACENE | 0.0555 | | |
| 000083-32-9 | ACENAPHTHENE | 0.06 | | |
| 000208-96-8 | ACENAPHTHYLENE | 0.09 | | |
| 000208-96-8 | ACENAPHTHYLENE | 0.09 | | |
| 000075-07-0 | ACETALDEHYDE | 0.7893 | | |
| 000064-19-7 | ACETIC ACID | 338.67 | | 156.83 |
| 740839-96-7 | ACETIC ACID, 2,2'-[[[2-[2-[(1-METHYLCYCLOPENTYL)OXY]... | | 1 | |
| 000123-86-4 | ACETIC ACID, BUTYL ESTER | | 2.5 | |
| 000127-09-3 | ACETIC ACID, SODIUM SALT | 1.45 | | |
| 000075-05-8 | ACETONITRILE | 224.36 | | |
| 000074-86-2 | ACETYLENE | 9.23 | | 1.65 |
| 000107-02-8 | ACROLEIN | 1 | | |
| 025014-41-9 | ACRYLONITRILE POLYME | 0.224 | | |
| 007429-90-5 | ALUMINUM | 7.85 | | |
| 001344-28-1 | ALUMINUM OXIDE | 4.962 | | |
| 007664-41-7 | AMMONIA | 5217.02 | | 4507.57 |
| 002539-76-6 | AMMONIUM 2-HYDROXYISOBUTYRATE | 3.72 | | |
| 012125-02-9 | AMMONIUM CHLORIDE | 22.26 | | |
| 007631-86-9 | AMORPHOUS SILICA | 22.17 | | |
| 000100-66-3 | ANISOLE | 69 | | 69 |
| 000120-12-7 | ANTHRACENE | 1 | | |
| 007440-36-0 | ANTIMONY | 1.05 | | |
| 007440-38-2 | ARSENIC | 1.03 | | |
| 003141-12-6 | ARSENOUS ACID, TRIMETYL ESTER | 1 | | |
| 007784-42-1 | ARSINE | 4 | | |
| 007440-39-3 | BARIUM | 15.82 | | |
| 010326-27-9 | BARIUM CHLORIDE DIHYDRATE | | 1 | |
| 000000-10-3 | BENZ(A)ANTHRACENE / CHRYSENE | 1 | | |
| 000071-43-2 | BENZENE | 14.8239 | | 2.3465 |
| 178953-33-8 | BENZENEMETHA | | 1 | |

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|---|---|---|---|
| | NAMINIUM, 4-METHOXY-N,N-DIMETHYL-N-PHENYL-, SALT... | | |
| 000056-55-3 | BENZO(A)ANTHRACENE | 0.0149 | |
| 000050-32-8 | BENZO(A)PYRENE | 0.007 | |
| 000205-99-2 | BENZO[B]FLUORANTHENE | 1 | |
| 000191-24-2 | BENZO[G,H,I]PERYLENE | 1 | |
| 000207-08-9 | BENZO[K]FLUORANTHENE | 1 | |
| 000784-38-3 | BENZOPHENONE, 2-AMINO-5-CHLORO-2'-FLUORO- | 11.43 | |
| 007440-41-7 | BERYLLIUM | 0.1 | |
| 007787-49-7 | BERYLLIUM FLUORIDE | 1 | |
| 000117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | 1 | |
| 011113-50-1 | BORIC ACID | 9.6 | |
| 007726-95-6 | BROMINE | 406 | 369 |
| 000106-97-8 | BUTANE | 7290.75 | 0.9 |
| 007440-43-9 | CADMIUM | 3.95 | |
| 010043-52-4 | CALCIUM CHLORIDE | 0.21 | |
| 001305-62-0 | CALCIUM HYDROXIDE | 255.8 | |
| 007440-44-0 | CARBON | 11.95 | |
| 000124-38-9 | CARBON DIOXIDE | 432769267 | 112549596 |
| 0NY750-00-0 | CARBON DIOXIDE EQUIVALENTS | 691658300 | 163611355 |
| 000630-08-0 | CARBON MONOXIDE | 313638.52 | 81695.7 |
| 000584-08-7 | CARBONIC ACID, DIPOTASSIUM SALT | 15 | |
| 001306-38-3 | CERIUM OXIDE CEO2 | 61.56 | |
| 016887-00-6 | CHLORIDE ION CL- | 69.4 | |
| 007782-50-5 | CHLORINE | 1674 | 762 |
| 000075-45-6 | CHLORODIFLUORO-METHANE | 6100 | 900 |
| 000067-66-3 | CHLOROFORM | 1 | |
| 007440-47-3 | CHROMIUM | 5.11 | |
| 001333-82-0 | CHROMIUM OXIDE | 1 | |
| 018540-29-9 | CHROMIUM(VI) | 1 | |
| 000218-01-9 | CHRYSENE | 1 | |
| 007440-48-4 | COBALT | 1.6 | |
| 007440-50-8 | COPPER | 23.0081 | |
| 076169-06-7 | CRESOL-FORMALDEHYDE COPOLYMER | 9.92 | |
| 000108-94-1 | CYCLOHEXANONE | 800 | |
| 007782-39-0 | DEUTERIUM | 863 | 361 |

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|---|---|---|---|---|
| 000053-70-3 | DIBENZ[A,H]ANTHRACENE | 0.0084 | | |
| 019287-45-7 | DIBORANE | 3.9 | | |
| 025321-22-6 | DICHLOROBENZENE | 4.17 | | |
| 000111-40-0 | DIETHYLENE TRIAMINE | 1.51 | | |
| 000075-37-6 | DIFLUOROETHANE | 0.5 | | 0.0002 |
| 000075-10-5 | DIFLUOROMETHANE | 17.14 | | |
| 000096-48-0 | DIHYDRO 2(3H)-FURANONE | 1000 | | |
| 000115-10-6 | DIMETHYL ETHER | 7.76 | | |
| 000067-64-1 | DIMETHYL KETONE | 237.51 | | 85.72 |
| 000067-68-5 | DIMETHYL SULFOXIDE | 28.91 | | |
| 007320-34-5 | DIPHOSPHORIC ACID,TETRAPOTASSIUM SALT H407P2.4K | 10 | | |
| 000069-65-8 | D-MANNITOL | 0.16 | | |
| 000141-63-9 | DODECAMETHYLPENTASILOXANE | 67.81 | | |
| 848094-33-7 | ENRICHED GERMANIUM TETRAFLUORIDE | 6.35 | | |
| 000074-84-0 | ETHANE | 10762.5304 | | 2798.601 |
| 000071-55-6 | ETHANE, 1,1,1-TRICHLORO | 1 | | |
| 000076-16-4 | ETHANE, HEXAFLUORO-FREON 116 | 310 | | |
| 000112-59-4 | ETHANOL, 2-[2-(HEXYLOXY)ETHOXY] | 1 | | |
| 000111-76-2 | ETHANOL, 2-BUTOXY- | | 2.5 | |
| 041637-38-1 | ETHOXYLATED BISPHENOL A DIMETHACRYLATE | | 1 | |
| 000100-41-4 | ETHYLBENZENE | 1 | | |
| 000074-85-1 | ETHYLENE | 4.7 | | 4.7 |
| 000206-44-0 | FLUORANTHENE | 1 | | |
| 000086-73-7 | FLUORENE | 0.1447 | | |
| 016984-48-8 | FLUORIDE | 7.46 | | 0.0074 |
| 007782-41-4 | FLUORINE | 48.4 | | |
| 000050-00-0 | FORMALDEHYDE | 282 | | 76.4 |
| 851671-85-7 | FORMALDEHYDE, POLYMER WITH 4,4'-(9H-FLUOREN-9-YLIDENE)BIS[PHENOL] | | 2.5 | |
| 000064-18-6 | FORMIC ACID | 75.22 | | |
| 007782-65-2 | GERMANIUMTETRAHYDRID | 5 | | |
| 000111-30-8 | GLUTARALDEHYDE | 84.8 | | |
| 000056-81-5 | GLYCEROL | 164.82 | | |

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|---|---|---|---|---|
| 000056-40-6 | GLYCINE | 501.79 | | |
| 000685-63-2 | HEXAFLUORO-1,3-BUTADIENE | 10 | | |
| 000999-97-3 | HEXAMETHYLDISILAZANE | 157.77 | | |
| 000110-54-3 | HEXANE | 6249.21 | | 1624.9941 |
| 001333-74-0 | HYDROGEN | | 2.5 | |
| 010035-10-6 | HYDROGEN BROMIDE | 1200 | | |
| 007647-01-0 | HYDROGEN CHLORIDE | 3020 | | |
| 007664-39-3 | HYDROGEN FLUORIDE | 1951.44 | | |
| 007722-84-1 | HYDROGEN PEROXIDE | 3830.29 | | 4092.93 |
| 000193-39-5 | INDENO[1,2,3-CD]PYRENE | 1 | | |
| 007440-74-6 | INDIUM IN | 10 | | |
| 010025-82-8 | INDIUM CHLORIDE | 4.4 | | |
| 007553-56-2 | IODINE | 0.084 | | |
| 229325-98-8 | IODONIUM, BIS[4-(1,1-DIMETHYLETHYL)PHENYL]-, SALT... | | 1 | |
| 000067-63-0 | ISOPROPYL ALCOHOL | 11495.85 | | |
| 000074-79-3 | L-ARGININE | 16.65 | | |
| 007439-92-1 | LEAD | 6.24 | | |
| 001309-48-4 | MAGNESIUM OXIDE | 1.76 | | |
| 007439-96-5 | MANGANESE | 6.3244 | | |
| 007439-97-6 | MERCURY | 1 | | |
| 003275-24-9 | METHANAMINE, N-METHYL TITANIUM (4+)SALT | 3 | | |
| 000075-59-2 | METHANAMINIUM N,N,N-TRIMETHYL-HYDROXIDE | 15 | | |
| 000074-82-8 | METHANE | 9496.18 | | 2290.42 |
| 000090-93-7 | METHANE, BIS [4-(DIETHYLAMINO)PHENYL] | 1 | | |
| 017570-76-2 | METHANESULFONIC ACID, LEAD(2+) SALT (2:1) | 10 | | |
| 053408-94-9 | METHANESULFONIC,TIN (2+) SALT | 170 | | |
| 000119-61-9 | METHANONE,DIPHENYL | 26 | | |
| 000067-56-1 | METHYL ALCOHOL | 25 | | |
| 000078-93-3 | METHYL ETHYL KETONE | 128.68 | | 3.5 |
| 000593-53-3 | METHYL FLUORIDE | 25.23 | | |
| 007439-98-7 | MOLYBDENUM | 4.0164 | | |
| 000091-20-3 | NAPHTHALENE | 2.9 | | 0.8 |

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|---|---|---|---|---|
| 0NY059-28-0 | NICKEL (NI 059) | 26.0033 | | |
| 013462-88-9 | NICKEL BROMIDE | 1 | | |
| 007440-02-0 | NICKEL METAL AND INSOLUBLE COMPOUNDS | 8 | | |
| 007697-37-2 | NITRIC ACID | 1165.44 | | 1165.44 |
| 010102-43-9 | NITRIC OXIDE | 396.17 | | |
| 010102-44-0 | NITROGEN DIOXIDE | | 50 | |
| 007783-54-2 | NITROGEN TRIFLUORIDE | 1242.45 | | |
| 010024-97-2 | NITROUS OXIDE | 87831.61 | | 65030.68 |
| 000115-25-3 | OCTAFLUOROCYCLOBUTANE | 42.97 | | |
| 000556-67-2 | OCTAMETHYLCYCLOTETRASILOXANE | 300 | | |
| 000111-65-9 | OCTANE | 43 | | |
| 006153-56-6 | OXALIC ACID DIHYDRATE | 10.812 | | |
| 0NY210-00-0 | OXIDES OF NITROGEN | 190000 | | |
| 010028-15-6 | OZONE | 16 | | |
| 0NY075-00-0 | PARTICULATES | 29124.4 | | |
| 000109-66-0 | PENTANE | 9026.64 | | 2347.2137 |
| 086508-42-1 | PERFLUORO N-ALKYLMORPHOLINE | 9900 | | 3388 |
| 010450-60-9 | PERIODIC ACID | 462.37 | | |
| 007722-64-7 | PERMANGANIC ACID POTASSIUM SALT | 1 | | |
| 061789-85-3 | PETROLEUM SULFONATES | 26.25 | | |
| 000085-01-8 | PHENANTHRENE | 1 | | |
| 007803-51-2 | PHOSPHINE | 1 | | |
| 007664-38-2 | PHOSPHORIC ACID | 644.32 | | |
| 007558-79-4 | PHOSPHORIC ACID DISODIUM SALT | 20.87 | | |
| 012185-10-3 | PHOSPHOROUS | 1.89 | | |
| 007723-14-0 | PHOSPHORUS (YELLOW) | 1 | | |
| 0NY075-02-5 | PM 2.5 | 1225 | | 109.1 |
| 0NY075-00-5 | PM-10 | 28490.4 | | 7081.6 |
| 051344-62-8 | POLY(OXY-1,2 ETHANDIYL..... | 10 | | |
| 035545-57-4 | POLYOXYETHYLENE 2-NAPHTHYLETHER | 31.23 | | |
| 001310-58-3 | POTASSIUM HYDROXIDE | 247.95 | | |
| 007681-11-0 | POTASSIUM IODIDE | 0.5 | | |
| 007722-64-7 | POTASSIUM PERMANGANATE | 0.265 | | |
| 000074-98-6 | PROPANE | 5560.4744 | | 1444.4392 |
| 000097-64-3 | PROPANOIC ACID,2-METHYL-,1,2-ETHANEDIYL | 300 | | |

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|---|---|---|---|---|
| | ESTER | | | |
| 000115-07-1 | PROPYLENE | 23.3399 | | |
| 000129-00-0 | PYRENE | 1 | | |
| 007782-49-2 | SELENIUM | 1 | | |
| 007803-62-5 | SILANE | | 1 | |
| 0A2945-52-5 | SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE | 14.96 | | |
| 112945-52-5 | SILICON DIOXIDE, AMORPHOUS | 5.72 | | |
| 007440-22-4 | SILVER | 10 | | |
| 000497-19-8 | SODIUM CARBONATE | 94.54 | | |
| 007647-14-5 | SODIUM CHLORIDE | 52.51 | | |
| 007681-49-4 | SODIUM FLUORIDE | 0.35 | | |
| 001310-73-2 | SODIUM HYDROXIDE | 634.72 | | |
| 007281-52-9 | SODIUM HYPOCHLORITE | 89.88 | | |
| 000062-76-0 | SODIUM OXALATE | 0.51 | | |
| 009005-25-8 | STARCH | 1.05 | | |
| 008052-41-3 | STODDARD SOLVENT | 56.03 | | |
| 013770-89-3 | SULFAMIC ACID, NICKEL(2+) SALT (2:1) | 1 | | |
| 007446-09-5 | SULFUR DIOXIDE | 26000 | | 10098 |
| 002551-62-4 | SULFUR HEXAFLUORIDE | 351.71 | | |
| 007664-93-9 | SULFURIC ACID | 15826.28 | | 15295.042 |
| 000526-83-0 | TARTARIC ACID | 9.7 | | 0.6 |
| 010026-04-7 | TETRACHLORO SILANE | 10 | | |
| 000109-17-1 | TETRAETHYLEN EGLYCOL, DIMETHACRYLA TE | 7.95 | | |
| 000075-73-0 | TETRAFLUORO METHANE | 9116.41 | | 9105.08 |
| 000097-99-4 | TETRAHYDROFU RFURYL ALCOHOL | 67 | | |
| 004419-47-0 | TETRAKIS(DIETH YLAMINO) TITANIUM | 2.23 | | |
| 000062-56-6 | THIOUREA | 0.45 | | |
| 007440-31-5 | TIN | 11.224 | | |
| 007550-45-0 | TITANIUM TETRACHLORIDE | 1 | | |
| 000108-88-3 | TOLUENE | 17.6563 | | |
| 0NY100-00-0 | TOTAL HAP | 31160 | | |
| 000075-46-7 | TRIFLUOROMET HANE | 100.75 | | 40.41 |
| 000122-20-3 | TRIISOPROPANO LAMINE | 0.14 | | |
| 000075-24-1 | TRIMETHYL ALUMINUM | 1.19 | | |
| 144317-44-2 | TRIPHENYLSULF ONIUM | | 1 | |

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|---|---|---|
| 007783-82-6 | PERFLUORO-1-TUNGSTEN HEXAFLUORIDE | 87.3 |
| 007440-62-2 | VANADIUM | 14.35 |
| 0NY998-00-0 | VOC | 76440 |
| 001330-20-7 | XYLENE, M, O & P MIXT. | 1 |
| 007440-66-6 | ZINC | 106.57 |

## 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 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:

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 2 01-6.7 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 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 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**

| Location Facility/EU/EP/Process/ES | Regulation | Condition | Short Description |
|---|---|---|---|
| FACILITY | ECL 19-0301 | 63 | Powers and Duties of the Department with respect to air pollution control |
| FACILITY | 40CFR 60-IIII | 52 | Standards of Performance for Stationary |

| | | | |
|---|---|---|---|
| | | | Compression Ignition Internal Combustion Engines |
| FACILITY | 40CFR 60-IIII.4211(a) | 53 | Stationary Compression Ignition Engines - Compliance Requirements |
| FACILITY | 40CFR 60-IIII.4211(f) | 54 | Stationary Compression Ignition IC Engines - Emergency Engine Operation |
| FACILITY | 40CFR 63-JJJJJJ.11223(b | 55 | ICI Boiler Area Source NESHAP - Tune-up Procedures |
| FACILITY | 40CFR 63-WWWWWW.11507(g | 56 | Plating and Polishing Requirements |
| FACILITY | 40CFR 63-ZZZZ | 57 | Reciprocating Internal Combustion Engine (RICE) NESHAP |
| A-00001 | 40CFR 63-ZZZZ.6640(f) | 62 | Reciprocating Internal Combustion Engine (RICE) NESHAP - emergency engines |
| FACILITY | 40CFR 68 | 16 | Chemical accident prevention provisions |
| FACILITY | 40CFR 82-F | 17, 18 | Protection of Stratospheric Ozone - recycling and emissions reduction |
| FACILITY | 40CFR 98 | 58 | Mandatory Greenhouse Gas Reporting |
| FACILITY | 6NYCRR 200.6 | 1 | Acceptable ambient air quality. |
| FACILITY | 6NYCRR 200.7 | 9 | Maintenance of equipment. |
| FACILITY | 6NYCRR 201-1.4 | 64 | Unavoidable noncompliance and violations |
| FACILITY | 6NYCRR 201-1.7 | 10 | Recycling and Salvage |
| FACILITY | 6NYCRR 201-1.8 | 11 | Prohibition of reintroduction of collected contaminants to the air |
| FACILITY | 6NYCRR 201-3.2(a) | 12 | Exempt Activities - Proof of eligibility |
| FACILITY | 6NYCRR 201-3.3(a) | 13 | Trivial Activities - proof of eligibility |
| FACILITY | 6NYCRR 201-6 | 19, 20, 59, 60 | Title V Permits and the Associated Permit Conditions |
| FACILITY | 6NYCRR 201-6.4(a)(4) | 14 | General Conditions - Requirement to Provide Information |
| FACILITY | 6NYCRR 201-6.4(a)(7) | 2 | General Conditions - Fees |
| FACILITY | 6NYCRR 201-6.4(a)(8) | 15 | 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 |

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|---|---|---|---|
| FACILITY | 6NYCRR 201-6.4(c)(3)(ii) | 5 | Reporting Requirements - Deviations and Noncompliance |
| FACILITY | 6NYCRR 201-6.4(d)(4) | 21 | Compliance Schedules - Progress Reports |
| FACILITY | 6NYCRR 201-6.4(e) | 6 | Compliance Certification |
| FACILITY | 6NYCRR 201-6.4(f) | 22, 23 | Operational Flexibility |
| FACILITY | 6NYCRR 201-6.5(a) | 65 | State Enforceable Requirements |
| FACILITY | 6NYCRR 201-7.1 | 24, 61 | Emission Capping in Facility Permits |
| FACILITY | 6NYCRR 202-1.1 | 26 | Required emissions tests. |
| FACILITY | 6NYCRR 202-2.1(c) | 27 | Electronic submittal requirement |
| FACILITY | 6NYCRR 202-2.4(a)(3) | 28 | Emission statement methods and procedures |
| FACILITY | 6NYCRR 202-2.5 | 7 | Emission Statements - record keeping requirements. |
| FACILITY | 6NYCRR 211.1 | 66 | General Prohibitions - air pollution prohibited |
| FACILITY | 6NYCRR 211.2 | 29 | General Prohibitions - visible emissions limited. |
| FACILITY | 6NYCRR 212-1.6(a) | 30 | Limiting of Opacity |
| FACILITY | 6NYCRR 212-1.7(b) | 31 | Sampling and Monitoring |
| FACILITY | 6NYCRR 212-2.1(a) | 67, 68, 69 | HTACs applicable to Table 212-2.3 Table 4 |
| FACILITY | 6NYCRR 212-2.1(b) | 32, 33, 34, 35, 36, 37, 38, 39 | Conditions should be cited under Table 3 or Table 4, 212-2.3 (a) or (b) |
| FACILITY | 6NYCRR 212-2.4(b) | 40 | Control of Particulate from New and Modified Process Emission Sources |
| FACILITY | 6NYCRR 212-3.1(c)(1) | 41 | Required Compliance Plans for applicable 212-3 emission sources |
| FACILITY | 6NYCRR 212-3.1(c)(4)(i) | 42, 43, 44, 45 | RACT compliance plan control limits for Capture and Control |
| FACILITY | 6NYCRR 215.2 | 8 | Open Fires - Prohibitions |
| FACILITY | 6NYCRR 225-1.2(c) | 46 | Sulfur-inFuel Limitations - Residual Oil |
| FACILITY | 6NYCRR 225-1.2(d) | 47 | Sulfur-in-Fuel Limitation - Distillate Oil |
| FACILITY | 6NYCRR 226-2.3(a) | 48 | Control Requirements for Industrial Cleaning Solvents |
| FACILITY | 6NYCRR 227-1.4(a) | 49 | Opacity Standard |
| FACILITY | 6NYCRR 231-11.2(b) | 50 | Reasonable Possibility requirements for |

| | | | |
|---|---|---|---|
| FACILITY | 6NYCRR 231-11.2(c) | 51 | insignificant mods - less than 50% with excluded emissions Reasonable Possibility requirements for insignificant mods - greater than 50% with excluded emissions |

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

ECL 19-0301
This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6 NYCRR 200.6
Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6 NYCRR 200.7
Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6 NYCRR 201-1.4
This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7
Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8
Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)
An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR 201-3.3 (a)
The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR Subpart 201-6
This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6 NYCRR 201-6.4 (a) (4)
This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)
This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)
This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6 NYCRR 201-6.4 (c)
This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)
This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.4 (c) (3) (ii)
This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.4 (d) (4)
This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted

semiannually.

6 NYCRR 201-6.4 (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 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 202-2.5
This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6 NYCRR 211.2
This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2
Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

40 CFR Part 68
This Part lists the regulated substances and there applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

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

**Facility Specific Requirements**
In addition to Title V, OnSemi East Fishkill Facility has been determined to be subject to the following regulations:
40 CFR 60.4211 (a)
This regulation states that the owner or operator and must comply with the emission standards specified in 40 CFR 60 Subpart IIII and must operate and maintain the stationary compression ignition internal combustion engine and control device according to the manufacturer's written instructions.

40 CFR 60.4211 (f)

These conditions state the hour limits for emergency engines operating in nonemergency engine situations

40 CFR 63.11223 (b)
This condition states what procedures an owner or operator of an industrial, commercial, or institutional boiler must follow to demonstrate continuous compliance with the tune-up requirements

40 CFR 63.11507 (g)
Requirements for plating and polishing process units

40 CFR 63.6640 (f)
This condition states the operation requirements for emergency engines.

40 CFR Part 60, Subpart IIII
Subpart IIII applies to new and reconstructed compression ignition reciprocating internal combustion engines. Sources subject to Subpart IIII must comply with emission standards for hydrocarbons, nitrogen oxides, carbon monoxide, and particulate matter.

40 CFR Part 63, Subpart ZZZZ
Subpart ZZZZ applies to reciprocating internal combustion engines. Sources subject to Subpart ZZZZ must limit emissions of carbon monoxide and formaldehyde. Sources must also comply with work practice standards and operating limits.

40 CFR Part 98
40 CFR Part 98 sets forth the reporting requirements for facilities that are subject to the mandatory reporting of greenhouse gases.

6 NYCRR 201-6.4 (f)
This section describes the potential for certain operational changes to be made by the facility owner or operator without first obtaining a permit modification. Changes made pursuant to this provision must meet all of the criteria described in this section to qualify for consideration as operational flexibility. The Department reserves the right to require the facility owner or operator to obtain a permit modification prior to making any changes at the facility pursuant to this section.

6 NYCRR 201-6.5 (a)
This subdivision states that the Department shall include state enforceable conditions in Title V permits. State enforceable conditions related to regulations developed pursuant to the Climate Leadership and Community Protection Act (CLCPA) and Article 75 of New York State Environmental Conservation Law may be included in future versions of this permit, as applicable.

6 NYCRR 201-7.1
This section of Part 201-7 specifies the criteria that need to be met in order to restrict emissions to avoid Title V or other applicable requirements using federally enforceable permit conditions permit.

6 NYCRR 202-2.1 (c)
Electronic submittal of emission statements will become mandatory and will be included as an enforceable condition in new or renewed Title V permits issued after January 1, 2021. The first reporting year under this provision will be the reporting year in which the permit was issued or reporting year 2025 (emission statements due in 2026), whichever is earlier.

6 NYCRR 202-2.4 (a) (3)

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)
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 212-1.7 (b)
This provision is to provide the monitoring parameter detail for facility owners and/or operators of any emission source equipped with either a thermal or catalytic oxidizer, fixed bed carbon absorption unit or refrigerated condenser.

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

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 212-3.1 (c) (4) (i)
This provision states that owners and/or operators of emission points subject to Part 212-3 operating prior to October 20, 1994 must submit a compliance plan to the department. The compliance plan must demonstrate that the VOC emission points are equipped with a capture system and a control device with an overall removal efficiency of at least 81 percent.

6 NYCRR 225-1.2 (c)
This subdivision sets the sulfur-in-fuel limitation for residual oil fired emission sources throughout the State.

6 NYCRR 225-1.2 (d)
This subdivision sets the sulfur-in-fuel limitation for distillate oil fired emission sources throughout the State.

6 NYCRR 226-2.3 (a)
This section contains control requirements for industrial cleaning solvents.

6 NYCRR 227-1.4 (a)
This subdivisions sets the opacity standard for subject stationary combustion installations.

6 NYCRR 231-11.2 (b)
This subdivision is referred to as the "Reasonable Possibility" provisions. This citation lists the record keeping requirements for insignificant modifications that are less than 50% of the applicable significant project threshold including excluded emissions as defined in Part 231-4.1(b)(40)(i)(c).

6 NYCRR 231-11.2 (c)
This citation lists the record keeping requirements for insignificant modifications that are greater than 50% of the threshold including excluded emissions as defined in 231-4.1(b)(40)(i)(c) of this Part.

**Compliance Certification**
**Summary of monitoring activities at OnSemi East Fishkill Facility:**

| Location Facility/EU/EP/Process/ES | Cond No. | Type of Monitoring |
|---|---|---|
| FACILITY | 53 | record keeping/maintenance procedures |
| FACILITY | 54 | record keeping/maintenance procedures |
| FACILITY | 55 | record keeping/maintenance procedures |
| FACILITY | 56 | record keeping/maintenance procedures |
| A-00001 | 62 | record keeping/maintenance procedures |
| FACILITY | 20 | record keeping/maintenance procedures |
| FACILITY | 5 | record keeping/maintenance procedures |
| FACILITY | 6 | record keeping/maintenance procedures |
| FACILITY | 23 | record keeping/maintenance procedures |
| FACILITY | 25 | monitoring of process or control device parameters as surrogate |
| FACILITY | 27 | record keeping/maintenance procedures |
| FACILITY | 30 | monitoring of process or control device parameters as surrogate |
| FACILITY | 31 | record keeping/maintenance procedures |
| FACILITY | 67 | record keeping/maintenance procedures |
| FACILITY | 68 | record keeping/maintenance procedures |
| FACILITY | 69 | record keeping/maintenance procedures |
| FACILITY | 32 | intermittent emission testing |
| FACILITY | 33 | intermittent emission testing |
| FACILITY | 34 | record keeping/maintenance procedures |
| FACILITY | 35 | record keeping/maintenance procedures |
| FACILITY | 36 | record keeping/maintenance procedures |
| FACILITY | 37 | intermittent emission testing |

| | | |
|---|---|---|
| FACILITY | 38 | intermittent emission testing |
| FACILITY | 39 | record keeping/maintenance procedures |
| FACILITY | 40 | intermittent emission testing |
| FACILITY | 41 | record keeping/maintenance procedures |
| FACILITY | 42 | intermittent emission testing |
| FACILITY | 43 | intermittent emission testing |
| FACILITY | 44 | monitoring of process or control device parameters as surrogate |
| FACILITY | 45 | monitoring of process or control device parameters as surrogate |
| FACILITY | 46 | work practice involving specific operations |
| FACILITY | 47 | work practice involving specific operations |
| FACILITY | 48 | record keeping/maintenance procedures |
| FACILITY | 49 | monitoring of process or control device parameters as surrogate |
| FACILITY | 50 | record keeping/maintenance procedures |
| FACILITY | 51 | record keeping/maintenance procedures |

**Basis for Monitoring**
Emission Unit A-00001 consists of seven (7) 72 mmBtu/hr natural gas fired boilers with low NOx burners. Six of the boilers can use #6 fuel oil as a backup fuel source.

All tanks at the facility are exempt from 6 NYCRR 229 requirements pursuant to 6 NYCRR 229.1 (f)(4) (horizontal petroleum or volatile organic liquid storage tanks). The vertical tanks have conservation vents and are pressurized with nitrogen to prevent emissions of volatile organic compounds to the outside atmosphere. The nitrogen pressure system is monitored periodically to ensure the system is working properly.

The manufacturing portion of the facility emission units I-00001, process 0WF (water fabrication) and K-00001 process C4P (controlled collapse chip connection plating) are subject to 6 NYCRR 212-1and 6 NYCRR 212-2. Dispersion modeling and control practices are included with this Title V renewal application.

The manufacturing portion of the facility is subject to 6 NYCRR Part 212-3 RACT regulation. Five Eisenmann Regenerative Thermal Oxidizers (RTO) are used for the destruction of emissions from process 0WF which are in Building 323 and Building 323A. Two Munters Concentrator Thermal Oxidizer (CTO), are used for the destruction of VOC emissions from emission unit K-00001 (C4P). All RTOs and CTOs have continuous monitors and data recorders to document combustion and exhaust temperatures. The continuous monitors must be always operated when associated process equipment is operating except during any quality assurance, routine maintenance, or RTO and CTO system malfunction. Each monitor must be operated according to a quality assurance program approved by the Department.

The facility is subject to 40 CFR 63 Subpart WWWWWW - National Emission Standards for Hazardous Air Pollutants: Area Sources Standards for Plating and Polishing Operations.

The facility is subject to 40 CFR 98 Mandatory Greenhouse Gas Reporting. All sources of per fluorinated gases (F-gases) are equipped with point-of-use (POU) abatement. These POU abatement devices are maintained and operated per manufacturer specifications to destroy F-gases.

The facility is subject to 40 CFR 82(F) refrigerant management.

The facility is subject to 40 CFR 63 Subpart JJJJJJ with the boilers to be tuned biennially when firing oil.

Emergency generators are subject to EPA reciprocating internal combustion engines (RICE) rule and each emergency generator can only operate up to 100 hours per year.

The OnSemi East Fishkill facility is no longer subject to NOx RACT following the implementation of a fuel cap.

40 CFR Part 60 Subpart Dc

Emission Unit (A-00001) Boiler 8 (Emission Source ID 00008) was installed after 6/9/89, however, this boiler has been physically modified making it incapable of firing fuel oil No. 6 or any fuel oil.

40 CFR Part 63 Subpart BBBBB

The facility is not a major source of Hazardous Air Pollutants (HAPs).

40 CFR 63 Subpart JJJJJJ

The six 72 MMBtu/hr boilers onsite are subject to this subpart and its requirements of biennial tune-ups. The tune-up will be an inspection of each unit and the facility is required to report the findings to the Department semi-annually.

40 CFR 63 Subpart WWWWWW

The facility is required to comply with specific management practices listed in section 11507 (g) of this Subpart. An annual compliance certification will be submitted for the nickel electroplating and electropolishing processes at the facility.

40 CFR 63 Subpart ZZZZ

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ.

40 CFR 98

The facility owner or operator must comply with the mandatory greenhouse gas (GHG) reporting and recordkeeping requirements from all stationary combustion and manufacturing sources.

6 NYCRR 201-6

The facility is required to follow its Operational Flexibility Plan. Changes made under operational flexibility cannot result in a new applicable regulation, cannot result in a significant net emission increase that exceeds the New Source Review (NSR) thresholds identified in 6 NYCRR Part 231, and cannot result in a change to or a new federally enforceable cap. The facility is required to notify the Department of such changes.

The facility owner and/or operator shall maintain a current record of all the emission units, points, processes, and source/controls on site.

6 NYCRR 201-7

The facility is capping out of 6 NYCRR 201-6 for its annual Sulfur Dioxide (SO2) emissions with an emission limit of 13 tons per year. SO2 emissions will be monitored by recording the amount of fuel burned by each combustion source and the building 325 (B325) SO2 dichlorination usage, both on a monthly basis

The facility is also capping out of 6 NYCRR 201-6.1 and 6 NYCRR 227-2 for its Nitrogen Dioxide (NOx) emissions with an emissions limit of 95 tons per year. NOx emissions will be monitored by recording the amount of fuel burned by each combustion source and the building 323 (B323) Nitric Oxide in the fabrication process, both on monthly basis.

6 NYCRR 212-1

The facility is required to comply with 6 NYCRR 212-1.6 (a) which limits the opacity to 20% based on a six-minute average for its process operations. The Department reserves the right to perform or require OnSemi to conduct a Method 9 opacity evaluation at any time during the facility operation.

Under 6 NYCRR 212-1.7 (b), continuous monitors and data recorders are required to measure combustion and outlet temperatures for the thermal oxidizers on site. These continuous monitors must be always

operated when the associated process equipment is operating except during and quality assurance and routine maintenance activities.

6 NYCRR 212-2

For a High Toxicity Air Contaminant (HTAC) assigned an Environmental Rating of A and with an Emission Rate Potential (ERP) of less than 0.1 pound per hour and annual mass emissions of a persistent and bioaccumulative compound less than the PB Trigger, the owner or operator is required to meet the short term and annual guideline concentration at the fence line of the facility. For the High Toxicity Air Contaminant's (HTACs) produced at the facility, the facility owner or operator must limit the actual emissions from all processes at the facility to comply with the mass emission limit listed for each individual HTAC listed in this subpart.

OnSemi must maintain process ERP below the levels specified for these criteria and non-criteria air contaminants. All records including, but not limited to, stack testing and/or material mass balance used in determining processes ERP shall be maintained on-site for a period of at least five (5) years and made available to Department upon request. The facility will achieve a minimum of 95 percent degree air cleaning of Hydrogen Fluoride emissions or outlet concentration less than or equal to 0.42 ppmv. The facility is required to stack test to ensure compliance once every five years.

The facility operates an N+1 scrubber system with only four scrubbers in building 323 required to operate for full manufacturing with the fifth scrubber as backup. They also operate an N+1 scrubber system with only two scrubbers in building 320B required to operate for full manufacturing with the third scrubber as backup. The acid scrubbers will be maintained in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards, and procedures, inclusive of manufacturer's specifications.

6 NYCRR 212-3

OnSemi is not required to further evaluate Reasonably Available Control Technology (RACT) for emission points with nitrogen oxide and volatile organic compound emission rate potentials (ERPs) less than 3.0 pounds per hour. The compliance plan shows the emission points' ERPs are less than the regulation threshold. The facility shall maintain a comprehensive inventory record of emission points subject to this requirement as well as documentation of compliance as appropriate.

The facility is required to operate the Regenerative Thermal Oxidizers (RTOs) and Concentrator Thermal Oxidizers (CTOs) at a minimum temperature of 1500 degrees F and 1250 degrees F, respectively. All records will be kept on site and will be made available to the Department.

6 NYCRR Part 225-1

Emission sources that fire residual oil are limited to 0.50 percent sulfur content by weight of the fuel. Sources that fire distillate oil are limited to 0.0015 percent sulfur content by weight of the fuel. All fuel vendor receipts must be maintained on site or at a department approved alternative location for a minimum of five years.

6 NYCRR Part 226-2

The facility shall not conduct any cleaning, with industrial cleaning solvents containing VOCs, unless the control measures listed in this subpart are used.

6 NYCRR Part 227-1

The facility shall not operate a stationary combustion installation source which exhibits greater than 20 percent opacity (based on a six-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. The owner or operator will conduct a Method 9 test annually.

6 NYCRR Part 231-11.2

The facility must meet the recordkeeping and reporting requirements for insignificant modifications under this subpart. Applicable records must be maintained on site for a minimum of five years.

Climate Leadership and Community Protection Act (CLCPA) Section 7(3)

OnSemi is required to comply with Section 7(3) of CLCPA because the facility is in a Disadvantaged Community (DAC) area. The facility submitted air quality dispersion modeling results for all co-pollutants or Hazardous Air Pollutants (HAPs). The modeling results showed that the facility would not adversely affect or disproportionately burden the surrounding DAC area. These results were approved by the NYSDEC Air Toxics Section (ATS).