



Connecticut Department of  
**ENERGY &  
ENVIRONMENTAL  
PROTECTION**

## BUREAU OF AIR MANAGEMENT TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

|  |                  |
|--|------------------|
| <b>Title V Permit Number</b>                 | 070-0193-TV      |
| <b>Client/Sequence/Town/Premises Numbers</b> | 46/2/070/5       |
| <b>Date Issued</b>                           | October 30, 2018 |
| <b>Expiration Date</b>                       | October 30, 2023 |

**Corporation:**

*Electric Boat Corporation*

**Premises Location:**

*75 Eastern Point Road, Groton, Connecticut 06340-1047*

**Name of Responsible Official and Title:**

*James Gildart, Vice President of Groton Operations*

All the following attached pages, 2 through 65, are hereby incorporated by reference into this Title V permit.

/s/Robert E. Kaliszewski  
Robert E. Kaliszewski  
Deputy Commissioner

10/30/2018  
Date

## TABLE OF CONTENTS

|  | PAGE |
|--|------|
| <b>List of Abbreviations/Acronyms</b> .....                              | 5    |
| <b>Section I. Premises Information/Description</b>                       |      |
| A. Premises Information .....  | 6    |
| B. Premises Description .....  | 6    |
| <b>Section II. Emissions Units Information</b>                           |      |
| A. Emissions Units Description - Table II.A .....                        | 7    |
| B. Operating Scenario Identification - Table II.B .....                  | 9    |
| <b>Section III. Applicable Requirements and Compliance Demonstration</b> |      |
| A. Grouped Emissions Unit 1 .....  | 10   |
| B. Emissions Unit 7 .....  | 11   |
| C. Grouped Emissions Unit 2 .....  | 12   |
| D. Emissions Unit 14 .....   | 14   |
| E. Grouped Emissions Unit 4 .....  | 16   |
| F. Grouped Emissions Unit 5 .....  | 21   |
| G. Emissions Unit 25 .....   | 25   |
| H. Emissions Unit 26 .....   | 29   |
| I. Emissions Unit 27 .....   | 32   |
| J. Emissions Unit 29 .....   | 33   |
| K. Emissions Unit 30 .....   | 34   |
| L. Emissions Unit 31 .....   | 34   |
| M. Emissions Unit 32 .....   | 36   |
| N. Emissions Unit 33 .....   | 39   |
| O. Grouped Emissions Unit 6 .....  | 39   |
| P. Grouped Emissions Units 8 .....                                       | 40   |
| Q. Emissions Unit 101 .....  | 41   |
| R. Emissions Unit 102 .....  | 42   |
| S. Emissions Unit 103 .....  | 46   |
| T. NESHAP for Shipbuilding and Ship Repair (Surface Coating) .....       | 48   |
| U. Premises-Wide General Requirements .....                              | 55   |
| V. Compliance Assurance Monitoring (CAM) Plan - Table III.V .....        | 57   |
| <b>Section IV. Compliance Schedule - Table IV</b> .....                  | 58   |
| <b>Section V. State Enforceable Terms and Conditions</b> .....           | 59   |
| <b>Section VI. Title V Requirements</b>                                  |      |
| A. Submittals to the Commissioner & Administrator .....                  | 60   |
| B. Certifications [RCSA §22a-174-33(b)] .....                            | 60   |
| C. Signatory Responsibility [RCSA §22a-174-2a(a)] .....                  | 60   |
| D. Additional Information [RCSA §§22a-174-33(j)(1)(X), -33(h)(2)] .....  | 61   |
| E. Monitoring Reports [RCSA §22a-174-33(o)(1)] .....                     | 61   |
| F. Premises Records [RCSA §22a-174-33(o)(2)] .....                       | 61   |
| G. Progress Reports [RCSA §22a-174-33(q)(1)] .....                       | 62   |
| H. Compliance Certifications [RCSA §22a-174-33(q)(2)] .....              | 62   |
| I. Permit Deviation Notifications [RCSA §22a-174-33(p)] .....            | 62   |

**TABLE OF CONTENTS, continued**

|  | <b>PAGE</b> |
|--|-------------|
| <b>Section VI. Title V Requirements, continued</b>                               |             |
| J. Permit Renewal [RCSA §22a-174-33(j)(1)(B)].....                               | 62          |
| K. Operate in Compliance [RCSA §22a-174-33(j)(1)(C)] .....                       | 62          |
| L. Compliance with Permit [RCSA §22a-174-33(j)(1)(G)] .....                      | 63          |
| M. Inspection to Determine Compliance [RCSA §22a-174-33(j)(1)(M)].....           | 63          |
| N. Permit Availability.....  | 63          |
| O. Severability Clause [RCSA §22a-174-33(j)(1)(R)] .....                         | 63          |
| P. Need to Halt or Reduce Activity [RCSA §22a-174-33(j)(1)(T)].....              | 63          |
| Q. Permit Requirements [RCSA §22a-174-33(j)(1)(V)] .....                         | 63          |
| R. Property Rights [RCSA §22a-174-33(j)(1)(W)].....                              | 63          |
| S. Alternative Operating Scenario Records [RCSA §22a-174-33(o)(3)].....          | 63          |
| T. Operational Flexibility and Off-Permit Changes [RCSA §22a-174-33(r)(2)] ..... | 64          |
| U. Information for Notification [RCSA §22a-174-33(r)(2)(A)] .....                | 64          |
| V. Transfers [RCSA §22a-174-2a(g)] .....   | 64          |
| W. Revocation [RCSA §22a-174-2a(h)] .....  | 64          |
| X. Reopening for Cause [RCSA §22a-174-33(s)] .....                               | 65          |
| Y. Credible Evidence.....  | 65          |

## **Title V Operating Permit**

**All conditions in Sections III, IV, and VI of this Title V permit are enforceable by both the Administrator and the commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this Title V permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, and VI of this Title V permit in accordance with the Clean Air Act, as amended.**

## LIST OF ABBREVIATIONS/ACRONYMS

| <i>Abbreviation/Acronym</i> | <i>Description</i>                                       |
|-----------------------------|--|
| bhp                         | Brake Horsepower   |
| °C                          | Degrees Celsius  |
| CAM                         | Compliance Assurance Monitoring                          |
| CEDRI                       | Compliance and Emissions Data Reporting Interface        |
| CFR                         | Code of Federal Regulations                              |
| CGS                         | Connecticut General Statutes                             |
| CO                          | Carbon Monoxide  |
| EU                          | Emissions Unit   |
| EPA                         | Environmental Protection Agency                          |
| °F                          | Degrees Fahrenheit                                       |
| FGR                         | Flue Gas Recirculation                                   |
| g                           | Gram   |
| gal                         | Gallon   |
| GEU                         | Grouped Emissions Units                                  |
| h                           | Hour   |
| HAP                         | Hazardous Air Pollutant                                  |
| H <sub>2</sub> O            | Water  |
| in.                         | Inch(es)   |
| L                           | Liter  |
| lb                          | Pound  |
| MMBtu                       | Million British Thermal Units                            |
| MMft <sup>3</sup>           | Million Cubic feet                                       |
| NESHAP                      | National Emission Standards for Hazardous Air Pollutants |
| NSR                         | New Source Review  |
| NO <sub>x</sub>             | Nitrogen Oxides  |
| O <sub>2</sub>              | Oxygen   |
| PM                          | Particulate Matter                                       |
| PM-2.5                      | Particulate Matter less than 2.5 microns                 |
| PM-10                       | Particulate Matter less than 10 microns                  |
| ppmv                        | Parts per million by volume                              |
| ppmvd                       | Parts per million by volume, dry basis                   |
| QA                          | Quality Assurance  |
| QC                          | Quality Control  |
| RACT                        | Reasonably Available Control Technology                  |
| RCSA                        | Regulations of Connecticut State Agencies                |
| SIC                         | Standard Industrial Classification Code                  |
| SO <sub>x</sub>             | Sulfur Oxides  |
| S/N                         | Serial Number  |
| T                           | Temperature  |
| TSP                         | Total Suspended Particulate                              |
| tpy                         | Tons per year  |
| VOC                         | Volatile Organic Compound                                |
| VOHAP                       | Volatile Organic Hazardous Air Pollutant                 |

## **Section I: Premises Information/Description**

### **A. PREMISES INFORMATION**

Nature of Business: Shipyard facility which constructs, maintains and repairs United States Naval Submarines

Primary SIC: 3731

Facility Mailing Address: 75 Eastern Point Road, Groton, CT 06340-1047

Telephone Number: 860-433-2791

### **B. PREMISES DESCRIPTION**

Electric Boat Corporation (EB) is a major source of regulated air pollutants, located at 75 Eastern Point Road in Groton, Connecticut. EB constructs submarines for the United States Navy and performs maintenance and repairs to submarines that are already a part of the United States Navy Fleet.

Major activities performed during submarine construction and maintenance/repair include:

- Metal working operations such as welding, brazing and gouging
- Hull preparations such as abrasive blasting and surface coating applications
- Applications to metal parts including surface cleaners, paints, adhesives and special coatings
- Manufacture and testing of ancillary components including woodworking, lead working, pipe fabrication, electrical component fabrication, parts degreasing, and radiological component operations.

Fuel burning equipment used at the facility includes boilers, generators, pumps, compressors, furnaces and dryers. This fuel burning equipment combusts a variety of fuels including propane, gasoline, diesel fuel and No. 2 fuel oil. Cooling towers are used to provide water for process cooling operations and for building air conditioning systems.

Emissions resulting from shipyard activities include volatile organic compounds, HAPs, particulate matter, carbon monoxide, nitrogen oxides and sulfur dioxide.

EU-102 is subject to 40 CFR Part 60 Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

The facility is subject to the National Emission Standards for Radionuclide Emissions in 40 CFR Part 61 Subpart I. The primary source of radionuclide emissions is the radioactive materials associated with the maintenance and overhaul of nuclear powered ships.

The facility is subject to 40 CFR Part 63 Subpart II, Shipbuilding and Ship Repair, 40 CFR Part 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines and 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

All pollutant emitting equipment at the facility with applicable requirements are included in this Title V permit.

## Section II: Emissions Units Information

### A. EMISSIONS UNITS DESCRIPTION

Emissions units are set forth in Table II.A. It is not intended to incorporate by reference these NSR Permits, Registrations or Regulations into this Title V permit.

| <b>TABLE II.A: EMISSIONS UNITS IDENTIFICATION</b> |   |                          |   |
|---|---|--------------------------|---|
| Emissions Unit                                    | Emissions Unit Description  | Control Unit Description | Permit (P), Registration (R) Number or Regulation Cite                                |
| <b>GEU-1</b>                                      | <b>Emergency engines ≤ 500 bhp subject to RCSA §22a-174-3b(e) and 40 Part CFR 63 Subpart ZZZZ</b> |                          |   |
| <b>EU-1</b>                                       | Kohler 180ROZ271 Generator  | None                     | RCSA §22a-174-3b(e)<br>40 CFR Part 63 Subpart ZZZZ                                    |
| <b>EU-2</b>                                       | Kohler 50ROZ271 Generator S/N 242612  | None                     | RCSA §22a-174-3b(e)<br>40 CFR Part 63 Subpart ZZZZ                                    |
| <b>EU-3</b>                                       | Kohler 50ROZ271 Generator S/N 245560  | None                     | RCSA §22a-174-3b(e)<br>40 CFR Part 63 Subpart ZZZZ                                    |
| <b>EU-4</b>                                       | Kohler 100ROZ277 Generator S/N 245436   | None                     | RCSA §22a-174-3b(e)<br>40 CFR Part 63 Subpart ZZZZ                                    |
| <b>EU-5</b>                                       | Kohler 100ROZ277 Generator S/N 245798   | None                     | RCSA §22a-174-3b(e)<br>40 CFR Part 63 Subpart ZZZZ                                    |
| <b>EU-6</b>                                       | Kohler 70RZ272 Emergency Generator  | None                     | RCSA §22a-174-3b(e)<br>40 CFR Part 63 Subpart ZZZZ                                    |
| <b>EU-8</b>                                       | Kohler 50 ROZJ Generator  | None                     | RCSA §22a-174-3b(e)<br>40 CFR Part 63 Subpart ZZZZ                                    |
| <b>EU-13</b>                                      | Kohler 250ROZ271 Diesel Generator   | None                     | RCSA §22a-174-3b(e)<br>40 CFR Part 63 Subpart ZZZZ                                    |
| <b>GEU-2</b>                                      | <b>MagneTek 250 RD Diesel Generators (Non-emergency)</b>  |                          |   |
| <b>EU-9</b>                                       | MagneTek 250 RD Diesel Generator (a)  | None                     | P-070-0257  |
| <b>EU-10</b>                                      | MagneTek 250 RD Diesel Generator (b)  | None                     | P-070-0258  |
| <b>EU-11</b>                                      | MagneTek 250 RD Diesel Generator (c)  | None                     | P-070-0259  |
| <b>EU-12</b>                                      | MagneTek 250 RD Diesel Generator (d)  | None                     | P-070-0260  |
| <b>EU-14</b>                                      | Kohler 250ROZ273 Diesel Generator (Non-emergency)   | None                     | P-070-0153  |
| <b>GEU-4</b>                                      | <b>Permitted Boilers</b>  |                          |   |
| <b>EU-15</b>                                      | Superior Fire Tube Boiler – 350 bhp – North Yard #2   | None                     | P-070-0008<br>RCSA §22a-174-18(e)(1)<br>RCSA §§22a-174-22e<br>40 CFR 63 Subpart DDDDD |
| <b>EU-16</b>                                      | B&W Boiler Type FMD 640 – Main Yard #4  | None                     | P-070-0032<br>RCSA §22a-174-18(e)(1)<br>RCSA §§22a-174-22e<br>40 CFR 63 Subpart DDDDD |
| <b>EU-17</b>                                      | Superior Fire Tube Boiler 150 – South Yard #1   | None                     | P-070-0055<br>RCSA §22a-174-18(e)(1)<br>RCSA §§22a-174-22e<br>40 CFR 63 Subpart DDDDD |
| <b>GEU-5</b>                                      | <b>Registered Boilers</b>   |                          |   |
| <b>EU-19</b>                                      | Superior Fire Tube Boiler 200 – North Yard #1   | None                     | R-070-0057<br>RCSA §22a-174-18(e)(2)<br>RCSA §§22a-174-22e                            |

## Section II: Emissions Units Information

| <b>TABLE II.A: EMISSIONS UNITS IDENTIFICATION, Continued</b> |   |   |   |
|--|---|---|---|
| <b>Emissions Unit</b>  | <b>Emissions Unit Description</b>   | <b>Control Unit Description</b>                                     | <b>Permit (P), Registration (R) Number or Regulation Cite</b>                         |
| <b>EU-20</b>   | B&W Boiler Type FMD 40,000  | None  | R-070-0066<br>RCSA §22a-174-18(e)(2)<br>RCSA §§22a-174-22e<br>40 CFR 63 Subpart DDDDD |
| <b>EU-21</b>   | B&W Boiler Type FMD 60,000  | None  | R-070-0067<br>RCSA §22a-174-18(e)(2)<br>RCSA §§22a-174-22e<br>40 CFR 63 Subpart DDDDD |
| <b>EU-22</b>   | Superior Fire Tube Boiler 350 bhp – Main Yard #1                          | None  | R-070-0068<br>RCSA §22a-174-18(e)(2)<br>RCSA §§22a-174-22e<br>40 CFR 63 Subpart DDDDD |
| <b>EU-23</b>   | Superior Fire Tube Boiler 250 bhp – South Yard #2                         | None  | R-070-0074<br>RCSA §22a-174-18(e)(2)<br>RCSA §§22a-174-22e<br>40 CFR 63 Subpart DDDDD |
| <b>EU-25</b>   | Surface Treatment Processes (Blasting and Coating Operations)             | Multiple baghouse filter configurations per environmental enclosure | P-070-0094<br>RCSA §22a-174-20<br>RCSA §22a-174-44<br>40 CFR Part 63 Subpart II       |
| <b>EU-26</b>   | Paint Spray Booth - Building #51  | Waterwall curtain   | P-070-0241<br>RCSA §22a-174-20<br>40 CFR Part 63 Subpart II                           |
| <b>EU-27</b>   | Blastec Abrasive Blasting Chamber - Building #212                         | Baghouse filter   | P-070-0255  |
| <b>EU-29</b>   | Wheelabrator-96 - Building #212   | Baghouse filter   | R-070-0075, R-070-0076  |
| <b>EU-30</b>   | Ship Hull Abrasive Grit Blasting  | None  | R-070-0094  |
| <b>EU-31</b>   | Ship Hull Painting  | None  | R-070-0095<br>RCSA §22a-174-20<br>40 CFR Part 63 Subpart II                           |
| <b>EU-32</b>   | Spray Painting – Building #212  | Particulate filters   | R-070-0227<br>RCSA §22a-174-20<br>40 CFR Part 63 Subpart II                           |
| <b>EU-33</b>   | Abrasive Blasting Cabinet – Building #129                                 | Cartridge filters   | P-070-0269  |
| <b>GEU-6</b>   | <b>Emergency diesel generators subject to 40 CFR Part 63 Subpart ZZZZ</b> |   |   |
| <b>EU-35</b>   | Kohler 50R0Z Emergency Generator  | None  | 40 CFR Part 63 Subpart ZZZZ   |
| <b>EU-36</b>   | Kohler 30R0Z281 Emergency Generator S/N 192344                            | None  | 40 CFR Part 63 Subpart ZZZZ   |
| <b>EU-37</b>   | Cummins 150D6T Generator S/N BC34558                                      | None  | 40 CFR Part 63 Subpart ZZZZ   |
| <b>EU-39</b>   | Cummins V8 Fire Pump  | None  | 40 CFR Part 63 Subpart ZZZZ   |
| <b>EU-40</b>   | Detroit 3 Cylinder Fire Pump  | None  | 40 CFR Part 63 Subpart ZZZZ   |
| <b>EU-41</b>   | Kohler 125ROZ Diesel Generator  | None  | 40 CFR Part 63 Subpart ZZZZ   |
| <b>GEU-8</b>   | <b>Heating Units</b>  | None  |   |
| <b>EU-52</b>   | Columbia 20 bhp Type HRT Boiler   | None  | 40 CFR 63 Subpart DDDDD   |
| <b>EU-53</b>   | Columbia 20 bhp Type HRT Boiler S/N 122540                                | None  | 40 CFR 63 Subpart DDDDD   |
| <b>EU-54</b>   | 30 bhp Fire Tube Boiler   | None  | 40 CFR 63 Subpart DDDDD   |
| <b>EU-55</b>   | Smith 20 bhp – 19 Series-6 Cast Iron Boiler S/N F96-603                   | None  | 40 CFR 63 Subpart DDDDD   |
| <b>EU-56</b>   | Fire Tube Boiler  | None  | 40 CFR 63 Subpart DDDDD   |



## Section II: Emissions Units Information

| <b>TABLE II.A: EMISSIONS UNITS IDENTIFICATION, Continued</b> |   |                                  |   |
|--|---|----------------------------------|---|
| Emissions Unit   | Emissions Unit Description  | Control Unit Description         | Permit (P), Registration (R) Number or Regulation Cite                              |
| <b>GEU-10</b>  | <b>Parts Washers</b>  |                                  |   |
| <b>EU-61</b>   | Crest Ultrasonics Parts Washer  | None                             | RCSA §22a-174-20(l)   |
| <b>EU-62</b>   | Intercont SJW-3 Parts Washer S/N O2190011   | None                             | RCSA §22a-174-20(l)   |
| <b>EU-63</b>   | Intercont SJW-3 Parts Washer S/N O2188015   | None                             | RCSA §22a-174-20(l)   |
| <b>EU-64</b>   | Parts Washer  | None                             | RCSA §22a-174-20(l)   |
| <b>EU-65</b>   | C2524 Ultrasonic Cleaner  | None                             | RCSA §22a-174-20(l)   |
| <b>EU-66</b>   | Model SJW-3 Cold Cleaning Parts Washer  | None                             | RCSA §22a-174-20(l)   |
| <b>EU-67</b>   | Model TLW-1 Cold Cleaning Parts Washer  | None                             | RCSA §22a-174-20(l)   |
| <b>EU-101</b>  | Abrasive Blast Room – Building #1   | Cartridge filters                | P-070-0280  |
| <b>EU-102</b>  | Boiler B7W FMO-66: Land-Based Steaming  | Low-NO <sub>x</sub> burners, FGR | P-070-0284<br>RCSA §§22a-174-22e<br>40 CFR 60 Subpart Db<br>40 CFR 63 Subpart DDDDD |
| <b>EU-103</b>  | Kohler Diesel Generator 125ROZ Diesel Generator located on a barge (non-emergency, non-road engine) | None                             | P-070-0261  |

### B. OPERATING SCENARIO IDENTIFICATION

The Permittee shall be allowed to operate under the following Standard Operating Scenarios without notifying the commissioner, provided that such operations are explicitly provided for and described in Table II.B.

| <b>TABLE II.B: OPERATING SCENARIO IDENTIFICATION</b>                         |  |
|--|--|
| Emissions Units Associated with the Scenarios                                | Description of Scenarios   |
| All emissions units listed in Section II, Table II.A of this Title V permit. | All emissions units shall be operated in accordance with applicable permit or regulation terms and conditions. |

### Section III: Applicable Requirements and Compliance Demonstration

The following contains summaries of applicable regulations and compliance demonstration for each identified Emissions Unit regulated by this Title V permit.

#### A. GEU-1 [EU-1-6, EU-8, EU-13], EMERGENCY ENGINES $\leq$ 500 bhp (Subject to RCSA §22a-174-3b(e) and 40 CFR Part 63 Subpart ZZZZ)

##### 1. Fuel Sulfur Content

###### a. Limitation or Restriction

Any nongaseous fuel consumed by the subject emergency engine shall not exceed the sulfur content of motor vehicle diesel fuel where “motor vehicle diesel fuel” is defined as in RCSA §22a-174-42. [RCSA §22a-174-3b(e)(2)(D)]

###### b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.1.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

###### c. Record Keeping Requirements

The Permittee shall make and maintain the following records: [RCSA §22a-174-3b(h)]

- i. A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
- ii. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
- iii. A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

###### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner’s request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

##### 2. Operational Conditions

###### a. Limitation or Restriction

- i. The Permittee shall not operate any emergency engine for more than 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
- ii. The Permittee shall comply with the following requirements. [40 CFR §63.6602 and §63.6640(f)(1)(ii)]:
  - (A) Limit the operation of each engine for maintenance and readiness checks to 100 hours per year. [40 CFR §63.6640(f)(1)(ii)]
  - (B) Change the oil and filter for each engine every 500 hours of operation or annually, whichever comes first. [40 CFR §63.6602]
  - (C) Inspect the air cleaner of each engine and inspect the spark plugs of EU-6 every 1000 hours of operation or annually, whichever comes first. [40 CFR §63.6602]
  - (D) Inspect all hoses and belts on each engine every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6602]
  - (E) Minimize each engine’s time spent at idle and minimize the engine’s startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6602]

### **Section III: Applicable Requirements and Compliance Demonstration**

#### *b. Monitoring and Testing Requirements*

- i. The Permittee shall monitor the hours of operation of each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall install a non-resettable hour meter on each engine, if one is not already installed. [40 CFR §63.6625(f)]
- iii. The Permittee shall operate and maintain each engine according to the manufacturer's emission-related operation and maintenance instructions or shall develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6640(a)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and maintain records of the hours of operation of each engine for each month and each 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]
- ii. The Permittee shall make and maintain records of maintenance performed on each engine. [40 CFR §63.6660]

#### *d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### **B. EU-7, CATERPILLAR D398A (Subject to RCSA §22a-174-3b(e))**

#### **1. Fuel Sulfur Content**

##### *a. Limitation or Restriction*

Any nongaseous fuel consumed by the subject emergency engine shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined as in RCSA §22a-174-42. [RCSA §22a-174-3b(e)(2)(D)]

##### *b. Monitoring and Testing Requirements*

Record keeping specified in Section III.B.1.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### *c. Record Keeping Requirements*

The Permittee shall make and maintain the following records: [RCSA §22a-174-3b(h)]

- i. A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
- ii. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
- iii. A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

##### *d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

## Section III: Applicable Requirements and Compliance Demonstration

### 2. Operational Conditions

#### a. Limitation or Restriction

The Permittee shall not operate any emergency engine for more than 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]

#### b. Monitoring and Testing Requirements

The Permittee shall monitor the hours of operation of each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### c. Record Keeping Requirements

The Permittee shall make and maintain records of the hours of operation of each engine for each month and each 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

#### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### C. GEU-2 [EU 9-12], FOUR MAGNETEK 250 RD DIESEL GENERATORS (Subject to P-070-0257 through P-070-0260)

#### 1. Operational Conditions

##### a. Limitation or Restriction

- i. The maximum fuel consumption over any consecutive 12 month period shall not exceed 4,650 gallons of diesel fuel per engine. [P-070-0257, P-070-0258, P-070-0259, P-070-0260]
- ii. The maximum hours of operation over any consecutive 12 month period shall not exceed 250 hours per engine. [P-070-0257, P-070-0258, P-070-0259, P-070-0260]

##### b. Monitoring and Testing Requirements

The Permittee shall monitor the fuel usage and operation hours of each engine. [P-070-0257, P-070-0258, P-070-0259, P-070-0260]

##### c. Record Keeping Requirements

The Permittee shall keep records of annual operating hours and fuel consumption for each engine. Annual operating hours and fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding the current month's fuel usage and operating hours to that of the previous 11 months. The Permittee shall make these calculations monthly. [P-070-0257, P-070-0258, P-070-0259, P-070-0260]

##### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### 2. TSP, PM-10, NO<sub>x</sub>, VOC and CO Emissions

##### a. Limitations or Restrictions per Engine

[P-070-0257, P-070-0258, P-070-0259, P-070-0260]

##### i. TSP, PM-10

(A)  $\leq 0.08$  lb/h

### Section III: Applicable Requirements and Compliance Demonstration

(B)  $\leq 0.03$  lb/MMBtu

(C)  $\leq 0.01$  tpy

ii. NO<sub>x</sub>

(A)  $\leq 4.41$  lb/h

(B)  $\leq 1.70$  lb/MMBtu

(C)  $\leq 0.55$  tpy

iii. VOC

(A)  $\leq 0.33$  lb/h

(B)  $\leq 0.13$  lb/MMBtu

(C)  $\leq 0.04$  tpy

iv. CO

(A)  $\leq 0.67$  lb/h

(B)  $\leq 0.26$  lb/MMBtu

(C)  $\leq 0.08$  tpy

b. *Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the emission limits by calculating the emission rates using emission factors from the following sources:

[P-070-0257, P-070-0258, P-070-0259, P-070-0260]

i. Manufacturer's data

ii. The Factor Information Retrieval (FIRE) data system version 6.2 (4/99) for Internal Combustion Engines by source classification code (SCC) 2-03-001-01.

c. *Record Keeping Requirements*

The Permittee shall make and maintain records of emissions calculations. [RCSA §22a-174-4(d)(1)]

d. *Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### 3. SO<sub>x</sub>

a. *Limitations or Restrictions per Engine*

[P-070-0257, P-070-0258, P-070-0259, P-070-0260]

i.  $\leq 0.76$  lb/h

ii.  $\leq 0.29$  lb/MMBtu

iii.  $\leq 0.09$  tpy

iv.  $\leq 0.05\%$  sulfur by weight (dry basis) in diesel fuel

b. *Monitoring and Testing Requirements*

i. The Permittee shall demonstrate compliance with the emission limits by calculating the emission rates using emission factors from the following sources:

### Section III: Applicable Requirements and Compliance Demonstration

[P-070-0257, P-070-0258, P-070-0259, P-070-0260]

(A) Manufacturer's data

(B) The Factor Information Retrieval (FIRE) data system version 6.2 (4/99) for Internal Combustion Engines by source classification code (SCC) 2-03-001-01.

ii. The Permittee shall monitor fuel sulfur content using a shipping receipt and a certification from the fuel supplier certifying the type of fuel in the shipment and weight percent sulfur in the fuel. [P-070-0257, P-070-0258, P-070-0259, P-070-0260]

c. *Record Keeping Requirements*

i. The Permittee shall make and maintain records of emissions calculations for each engine. [RCSA §22a-174-4(d)(1)]

ii. The Permittee shall keep records of shipping receipts and fuel certifications that include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. [P-070-0257, P-070-0258, P-070-0259, P-070-0260]

d. *Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### D. EU-14, KOHLER DIESEL GENERATOR, 250ROZ273 (Subject to P-070-0153)

##### 1. Operational Conditions

a. *Limitation or Restriction*

i. The maximum fuel consumption over any consecutive 12 month period shall not exceed 7,500 gallons of diesel fuel. [P-070-0153]

ii. The maximum hours of operation over any consecutive 12 month period shall not exceed 500 hours. [P-070-0153]

b. *Monitoring and Testing Requirements*

The Permittee shall monitor the fuel usage and operating hours. [P-070-0153]

c. *Record Keeping Requirements*

The Permittee shall keep records of annual operating hours and fuel consumption. Annual operating hours and fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding the current month's fuel usage and operating hours to that of the previous 11 months. The Permittee shall make these calculations monthly. [P-070-0153]

d. *Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

##### 2. TSP, PM-10, NO<sub>x</sub>, VOC and CO Emissions

a. *Limitations or Restrictions*  
[P-070-0153]

i. TSP/PM-10

(A)  $\leq 0.642$  lb/h

### Section III: Applicable Requirements and Compliance Demonstration

(B)  $\leq 0.307$  lb/MMBtu

(C)  $\leq 0.160$  tpy

ii. NO<sub>x</sub>

(A)  $\leq 9.129$  lb/h

(B)  $\leq 4.368$  lb/MMBtu

(C)  $\leq 2.282$  tpy

iii. VOC

(A)  $\leq 0.869$  lb/h

(B)  $\leq 0.416$  lb/MMBtu

(C)  $\leq 0.217$  tpy

iv. CO

(A)  $\leq 1.967$  lb/h

(B)  $\leq 0.941$  lb/MMBtu

(C)  $\leq 0.492$  tpy

b. *Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the emission limits by calculating the emission rates using emission factors from the following sources: [P-070-0153]

- i. AP-42, 5<sup>th</sup> edition, January 1995 and the Factor Information Retrieval (FIRE) data system, version 5.0, August 1995.

c. *Record Keeping Requirements*

The Permittee shall make and maintain records of emissions calculations. [RCSA §22a-174-4(d)(1)]

d. *Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### 3. SO<sub>x</sub>

a. *Limitations or Restrictions*

[P-070-0153]

i.  $\leq 0.600$  lb/h

ii.  $\leq 0.287$  lb/MMBtu

iii.  $\leq 0.150$  tpy

iv.  $\leq 0.05\%$  sulfur by weight (dry basis) in diesel fuel

b. *Monitoring and Testing Requirements*

- i. The Permittee shall demonstrate compliance with the emission limits by calculating the emission rates using emission factors from the following sources: [P-070-0153]

(A) AP-42, 5<sup>th</sup> edition, January 1995 and the Factor Information Retrieval (FIRE) data system, version 5.0, August 1995.

### Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall monitor fuel sulfur content using a shipping receipt and a certification from the fuel supplier certifying the type of fuel in the shipment and weight percent sulfur in the fuel. [P-070-0153]

#### c. Record Keeping Requirements

- i. The Permittee shall make and maintain records of emissions calculations for each engine. [RCSA §22a-174-4(d)(1)]
- ii. The Permittee shall keep records of shipping receipts and fuel certifications that include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. [P-070-0153]

#### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### E. GEU-4 [EU-15-17], BOILERS – North Yard #2 [P-070-0008], Main Yard #4 [P-070-0032] and South Yard #1 [P-070-0055] (Subject to RCSA §§22a-174-18, -22e, 40 CFR Part 63 Subpart DDDDD)

#### 1. Maximum Annual Fuel Usage

##### a. Limitations or Restrictions

The maximum fuel consumption in any consecutive 12 month period shall not exceed:

- i. 117.4 MMft<sup>3</sup> of natural gas, EU-15 [P-070-0008]
- ii. 408 MMft<sup>3</sup> of natural gas and 2,800,000 gallons of No. 2 fuel oil, EU-16 [P-070-0032]
- iii. 55.1 MMft<sup>3</sup> of natural gas and 397,700 gallons of No. 2 fuel oil, EU-17 [P-070-0055]

##### b. Monitoring and Testing Requirements

- i. The Permittee shall continuously monitor fuel consumption using a non-resettable totalizing fuel meter. [P-070-0008]
- ii. When more than one fuel supply tank is used to supply any of these boilers or when two or more of the boilers are supplied by one fuel tank, the Permittee shall use fuel metering devices to continuously monitor fuel feed to each boiler. [P-070-0032, P-070-0055]

##### c. Record Keeping Requirements

- i. The Permittee shall record the monthly and consecutive 12 month fuel consumption. The consecutive 12 month fuel consumption shall be determined by adding the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P-070-0008]
- ii. The Permittee shall keep records of annual fuel consumption for each boiler. Annual fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding the current month's operating hours and fuel usage to that of the previous 11 months. The Permittee shall make these calculations monthly. [P-070-0032, P-070-0055]

##### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]



## Section III: Applicable Requirements and Compliance Demonstration

### 2. Fuel Sulfur Content

#### a. Limitations or Restrictions

≤ 15 ppm sulfur by weight (dry basis) for No. 2 fuel oil [RCSA §22a-174-19b]

#### b. Monitoring and Testing Requirements

The Permittee shall monitor fuel sulfur content using a shipping receipt and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel [P-070-0032, P-070-0055]

#### c. Record Keeping Requirements

The Permittee shall keep records of shipping receipts and fuel certifications that include the name of the oil supplier, the sulfur content of the oil, and the method used to determine the sulfur content of the oil. [P-070-0032, P-070-0055]

#### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### 3. PM, PM-10, PM-2.5, SO<sub>x</sub>, VOC and CO Emissions

#### a. Limitations or Restrictions

##### i. PM/PM-10/PM-2.5

- (A) Natural gas: ≤ 1.58 lb/h, ≤ 0.1 lb/MMBtu, ≤ 6.31 tpy [P-070-0008, RCSA 22a-174-18(e)(1)]  
≤ 5.55 lb/h, ≤ 0.1 lb/MMBtu, ≤ 21.0 tpy [P-070-0032, RCSA 22a-174-18(e)(1)]  
≤ 0.68 lb/h, ≤ 0.1 lb/MMBtu, ≤ 2.98 tpy [P-070-0055, RCSA 22a-174-18(e)(1)]
- (B) No. 2 fuel oil: ≤ 5.55 lb/h, ≤ 0.1 lb/MMBtu, ≤ 5.58 tpy [P-070-0032, RCSA 22a-174-18(e)(1)]  
≤ 0.68 lb/h, ≤ 0.1 lb/MMBtu, ≤ 0.04 tpy [P-070-0055, RCSA 22a-174-18(e)(1)]

##### ii. SO<sub>x</sub>

- (A) Natural gas: ≤ 0.01 lb/h, ≤ 0.04 tpy [P-070-0008]  
≤ 0.03 lb/h, ≤ 0.12 tpy [P-070-0032]  
≤ 0.004 lb/h, ≤ 0.02 tpy [P-070-0055]
- (B) No. 2 fuel oil: ≤ 16.89 lb/h, ≤ 59.64 tpy [P-070-0032]  
≤ 2.07 lb/h, ≤ 8.47 tpy [P-070-0055]

##### iii. VOC

- (A) Natural gas: ≤ 0.08 lb/h, ≤ 0.32 tpy [P-070-0008]  
≤ 0.30 lb/h, ≤ 1.12 tpy [P-070-0032]  
≤ 0.03 lb/h, ≤ 0.15 tpy [P-070-0055]
- (B) No. 2 fuel oil: ≤ 0.08 lb/h, ≤ 0.28 tpy [P-070-0032]  
≤ 0.01 lb/h, ≤ 0.16 tpy [P-070-0055]

##### iv. CO

- (A) Natural gas: ≤ 1.23 lb/h, ≤ 4.93 tpy [P-070-0008]  
≤ 4.53 lb/h, ≤ 17.14 tpy [P-070-0032]  
≤ 0.53 lb/h, ≤ 2.31 tpy [P-070-0055]
- (B) No. 2 fuel oil: ≤ 1.98 lb/h, ≤ 7.0 tpy [P-070-0032]  
≤ 0.24 lb/h, ≤ 0.99 tpy [P-070-0055]

### Section III: Applicable Requirements and Compliance Demonstration

#### *b. Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the emission limits by calculating the emission rates using emission factors from AP-42 (7/98) for natural gas and AP-42 (9/98) for No. 2 fuel oil. [P-070-0008, P-070-0032, P-070-0055]

#### *c. Record Keeping Requirements*

The Permittee shall make and maintain records of emissions calculations and emission factors used. [RCSA §22a-174-4(d)(1)]

#### *d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### 4. NO<sub>x</sub> Emissions

#### *a. Limitations or Restrictions*

##### *i. Natural gas firing*

(A)  $\leq 3.16 \text{ lb/h}, \leq 0.20 \text{ lb/MMBtu}, \leq 12.62 \text{ tpy}$   
[P-070-0008, RCSA §§22a-174-22e(d)(3)]

(B)  $\leq 11.1 \text{ lb/h}, \leq 0.20 \text{ lb/MMBtu}, \leq 42.0 \text{ tpy}$   
[P-070-0032, RCSA §§22a-174-22e(d)(3)]

(C)  $\leq 1.36 \text{ lb/h}, \leq 0.20 \text{ lb/MMBtu}, \leq 5.97 \text{ tpy}$   
[P-070-0055, RCSA §§22a-174-22e(d)(3)]

##### *ii. No. 2 fuel oil firing*

(A)  $\leq 13.88 \text{ lb/h}, \leq 0.25 \text{ lb/MMBtu}, \leq 11.16 \text{ tpy}$   
[P-070-0032, RCSA §§22a-174-22e(d)(3)]

(B)  $\leq 1.70 \text{ lb/h}, \leq 0.25 \text{ lb/MMBtu}, \leq 8.47 \text{ tpy}$   
[P-070-0055, RCSA §§22a-174-22e(d)(3)]

#### *b. Monitoring and Testing Requirements*

i. The Permittee shall conduct an initial emissions test during Phase 1 that is no more than 63 calendar months following the date of the last emissions test performed pursuant to former RCSA §22a-174-22(k). [RCSA §22a-174-22e(l)(4)]

ii. The Permittee shall conduct each emissions test in accordance with RCSA §22a-174-5 and compliance with the emissions limitations of RCSA §22a-174-22e shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period except as follows: [RCSA §22a-174-22e(l)(6)]

(A) As otherwise specified in an applicable New Source Performance Standard in 40 CFR Part 60; or

(B) If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing where compliance with the emissions limitations of this section shall be determined based on the average of test runs shorter than a one-hour period. For the first time that an emissions unit is tested with a shorter than one-hour test run as provided in this subdivision, approval of the commissioner for a shorter than one-hour test run shall be received prior to testing by submission of a request to the commissioner at least 120 days prior to the scheduled

### **Section III: Applicable Requirements and Compliance Demonstration**

testing. The request shall specify a test run duration and describe why a shorter time period is necessary.

- iii. The Permittee shall demonstrate compliance with the emissions limitations of RCSA §22a-174-22e using sampling and analytical procedures under 40 CFR Part 60, Appendix A or, for affected units, under 40 CFR Part 75, or under procedures in RCSA §22a-174-5(d). Sampling shall be conducted when the emission unit is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above 90 percent of maximum capacity, except as follows: [RCSA §22a-174-22e(1)(7)]
  - (A) If the commissioner determines that operating at or above 90 percent of maximum capacity for an emission unit during sampling is not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing of an emission unit at an alternative maximum capacity where compliance with the emissions limitations of RCSA §22a-174-22e(d) shall be determined based on operating at or above 90 percent of the alternative maximum capacity approved by the commissioner; and
  - (B) Any emission unit that has operated in excess of 100 percent of its maximum capacity at any time since the most recent performance test performed pursuant to this section shall be tested when the emission unit is operating at or above 90 percent of its highest operating rate since the most recent performance test performed pursuant to RCSA §22a-174-22e.

#### *c. Record Keeping Requirements*

The Permittee shall make and maintain the following records:

- i. Records of all tune-ups, repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)(B)]
- ii. Records of each tune-up conducted pursuant to RCSA §22a-174-22e(i) containing the date the tune-up occurred, the name, title and affiliation of the person performing the tune-up, description of the work performed and procedure used. [RCSA §22a-174-22e(j)(E)]
- iii. Records of the dates and times of all emission testing required by Section III.E.4.b of this Title V permit, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22e(j)(2)(C)]
- iv. Copies of all documents submitted to the commissioner pursuant to Section III.E.4 of this Title V permit. [RCSA §22a-174-22e(j)(2)(F)]

#### *d. Reporting Requirements*

The Permittee shall provide the following report:

- i. Not more than 60 days after the completion of emission tests, the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22e(k)(1)]

### **5. Opacity**

#### *a. Limitations or Restrictions*

Opacity shall not exceed 10% opacity during any six minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9 for EU-15. [P-070-0008]

### **6. 40 CFR Part 63 Subpart DDDDD**

#### *a. Subcategory*

Each boiler in GEU-4 is classified in the “Unit designed to burn gas 1 subcategory” as defined by 40 CFR §63.7575 provided combustion of liquid fuel for periodic testing of liquid fuel, maintenance or

### **Section III: Applicable Requirements and Compliance Demonstration**

operator training does not exceed a combined total of 48 hours during any calendar year. Combustion of liquid fuel during periods of gas curtailment or gas supply interruptions are also included in the definition of this subcategory. No numeric emission limits apply to boilers in this subcategory.

#### *b. Work Practice Standards*

i. The Permittee shall comply with the following work practice standards:

(A) Conduct an initial tune-up of each boiler. Subsequent tune-ups shall be conducted annually for EU-15 and EU-16 and biennially for EU-17. (Frequency of tune-ups is reduced to every five years if an Oxygen Trim System is utilized). The tune-up shall include the following items: [40 CFR §§63.7510(e), 63.7540(a)(10) and 63.7540(a)(11)]

- (1) An inspection of the burner, cleaning and replacement of any components of the burner, as necessary.
- (2) An inspection of the flame pattern and adjustment of the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications.
- (3) Optimization of total emissions of CO. This optimization should be consistent with the manufacturer's specification and with the boiler's NO<sub>x</sub> limitation.
- (4) Measurement of the concentrations in the effluent stream of CO in ppmv and oxygen in weight percent before and after adjustments are made.

(B) The Permittee shall operate and maintain the boiler including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.7500(a)(3)]

#### *c. Record Keeping Requirements*

The Permittee shall make and keep the following records:

i. Records of annual tune-ups including the following information [40 CFR §63.7540(a)(10)(vi)]

- (A) The concentrations of CO in the effluent stream in ppmv and oxygen in weight % measured before and after the tune-up of the boiler.
- (B) A description of any corrective action taken as part of the tune-up.
- (C) The type and amount of fuel used over the 12 months prior to the tune-up.

ii. Records sufficient to prove a comprehensive energy assessment was completed including the date on which such energy assessment was conducted. [RCSA §22a-174-4(d)(1)]

iii. A copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart DDDDD, including all documentation supporting any Notification of Compliance Status or semiannual report submitted. [40 CFR §63.7555(a)(1)]

iv. If an alternative fuel other than natural gas is used, records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. [40 CFR §63.7555(h)]

#### *d. Reporting Requirements*

The Permittee shall submit the following reports to the commissioner and Administrator:

i. If the Permittee intends to use a fuel other than natural gas during a period of natural gas curtailment or supply interruption a notification of alternative fuel use shall be submitted to the commissioner and Administrator within 48 hours of the declaration of each period of natural gas curtailment or supply interruption. The notification must include the following information: [40 CFR §63.7545(f)]

### Section III: Applicable Requirements and Compliance Demonstration

- (A) Company name and address;
  - (B) Identification of the affected unit;
  - (C) Reason for being unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began; and
  - (D) Dates when the alternative fuel use is expected to begin and end.
- ii. The Permittee shall submit a compliance report to the commissioner and Administrator annually for EU-15 and EU-16 and biennially for EU-17. The report must be postmarked no later than January 31<sup>st</sup> following the end of each applicable reporting period. [40 CFR §63.7550(b)]
- (A) The compliance report shall contain the following information: [40 CFR §63.7550(c)]
    - (1) Company and facility name and address;
    - (2) Process unit information, emissions limitations and operating parameter limitations;
    - (3) Date of report and beginning and ending dates of the reporting period;
    - (4) The total operating time during the reporting period; and
    - (5) The date of the most recent tune-up for each unit and the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown.
  - (B) The compliance report must be submitted electronically to the Administrator using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)), with a hardcopy to the commissioner. However if the reporting form specific to 40 CFR Part 63 Subpart DDDDD is not available in CEDRI at the time that the report is due, the report shall be submitted to the commissioner and Administrator at the appropriate address listed in Section VI.A of this Title V permit.

#### F. GEU-5 [EU-19-23], FIVE REGISTERED BOILERS

(Subject to RCSA §§22a-174-18(e)(2), -19b, and -22e, R-070-0057, R-070-0066, R-070-0067, R-070-0068, R-070-0074, 40 CFR Part 63 Subpart DDDDD)

##### 1. Fuel Sulfur Content

###### a. Limitations or Restrictions

- i. Distillate fuel oil:  $\leq 0.0015\%$  sulfur by weight, dry basis [RCSA §22a-174-19b(d)(2)]
- ii. Residual oil:  $\leq 0.3\%$  sulfur by weight, dry basis [RCSA §22a-174-19b(d)(2)]

###### b. Monitoring and Testing Requirements

The Permittee shall monitor fuel sulfur content using a shipping receipt and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]

###### c. Record Keeping Requirements

The Permittee shall keep records of shipping receipts and fuel certifications that include the name of the oil supplier, the sulfur content of the oil, and the method used to determine the sulfur content of the oil. [RCSA §22a-174-19b(g)(3)]

###### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

## Section III: Applicable Requirements and Compliance Demonstration

### 2. PM-10 Emissions

#### a. Limitations or Restrictions

- i. Natural gas:  $\leq 0.1$  lb/MMBtu [RCSA §22a-174-18(e)(2)(C)]
- ii. Distillate fuel oil:  $\leq 0.12$  lb/MMBtu [RCSA §22a-174-18(e)(2)(B)]
- iii. Residual fuel oil:  $\leq 0.14$  lb/MMBtu [RCSA §22a-174-18(e)(2)(A)]

#### b. Monitoring and Testing Requirements

The Permittee shall demonstrate compliance with the emission limits by calculating the emission rates using emission factors from AP-42, Fifth Edition, January 1995. [RCSA §22a-174-33(j)(K)(ii)]

#### c. Record Keeping Requirements

The Permittee shall make and maintain records of emissions calculations and emission factors used. [RCSA §22a-174-4(d)(1)]

#### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### 3. NO<sub>x</sub> Emissions

#### a. Limitations or Restrictions

[RCSA §§22a-174-22e(d)(3)]

- i. Natural gas and distillate fuel oil:  $\leq 0.20$  lb/MMBtu
- ii. Residual fuel oil:  $\leq 0.25$  lb/MMBtu

#### b. Monitoring and Testing Requirements

- i. On and after June 1, 2018, the Permittee shall conduct an initial emissions test during Phase 1 that is no more than 63 calendar months following the date of the last emissions test performed pursuant to former RCSA §22a-174-22(k). [RCSA §22a-174-22e(1)(4)]
- ii. On and after June 1, 2018, the Permittee shall conduct each emissions test in accordance with RCSA §22a-174-5 and compliance with the emissions limitations of RCSA §22a-174-22e shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period except as follows: [RCSA §22a-174-22e(1)(6)]
  - (A) As otherwise specified in an applicable New Source Performance Standard in 40 CFR Part 60; or
  - (B) If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing where compliance with the emissions limitations of this section shall be determined based on the average of test runs shorter than a one-hour period. For the first time that an emissions unit is tested with a shorter than one-hour test run as provided in this subdivision, approval of the commissioner for a shorter than one-hour test run shall be received prior to testing by submission of a request to the commissioner at least 120 days prior to the scheduled testing. The request shall specify a test run duration and describe why a shorter time period is necessary.
- iii. On and after June 1, 2018, the Permittee shall demonstrate compliance with the emissions limitations of RCSA §22a-174-22e using sampling and analytical procedures under 40 CFR Part 60, Appendix A or, for affected units, under 40 CFR Part 75, or under procedures in RCSA §22a-174-5(d).

### Section III: Applicable Requirements and Compliance Demonstration

Sampling shall be conducted when the emission unit is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above 90 percent of maximum capacity, except as follows: [RCSA §22a-174-22e(1)(7)]

- (A) If the commissioner determines that operating at or above 90 percent of maximum capacity for an emission unit during sampling is not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing of an emission unit at an alternative maximum capacity where compliance with the emissions limitations of RCSA §22a-174-22e(d) shall be determined based on operating at or above 90 percent of the alternative maximum capacity approved by the commissioner; and
- (B) Any emission unit that has operated in excess of 100 percent of its maximum capacity at any time since the most recent performance test performed pursuant to this section shall be tested when the emission unit is operating at or above 90 percent of its highest operating rate since the most recent performance test performed pursuant to RCSA §22a-174-22e.

#### c. Record Keeping Requirements

- i. Records of all tune-ups, repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)(B)]
- ii. Records of each tune-up conducted pursuant to RCSA §22a-174-22e(i) containing the date the tune-up occurred, the name, title and affiliation of the person performing the tune-up, description of the work performed and procedure used. [RCSA §22a-174-22e(j)(E)]
- iii. Records of the dates and times of all emission testing required by Section III.F.3.b of this Title V permit, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22e(j)(2)(C)]
- iv. Copies of all documents submitted to the commissioner pursuant to Section III.F.3 of this Title V permit. [RCSA §22a-174-22e(j)(2)(F)]

#### d. Reporting Requirements

The Permittee shall provide the following report:

- i. Not more than 60 days after the completion of emission tests, the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22e(k)(1)]

### 4. 40 CFR Part 63 Subpart DDDDD

#### a. Subcategory

Each boiler in GEU-5 is classified in the “Unit designed to burn gas 1 subcategory” as defined by 40 CFR §63.7575 provided combustion of liquid fuel for periodic testing of liquid fuel, maintenance or operator training does not exceed a combined total of 48 hours during any calendar year. Combustion of liquid fuel during periods of gas curtailment or gas supply interruptions are also included in the definition of this subcategory. No numeric emission limits apply to boilers in this subcategory.

#### b. Work Practice Standards

- i. The Permittee shall comply with the following work practice standards:
  - (A) Conduct an initial tune-up of each boiler. Subsequent tune-ups shall be conducted biennially for EU-19 and annually for all other boilers in GEU-5. (Frequency of tune-ups is reduced to every five years if an Oxygen Trim System is utilized). The tune-up shall include the following items: [40 CFR §§63.7510(e), 63.7540(a)(10) and 63.7540(a)(11)]
    - (1) An inspection of the burner, cleaning and replacement of any components of the burner, as necessary.

### **Section III: Applicable Requirements and Compliance Demonstration**

- (2) An inspection of the flame pattern and adjustment of the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications.
  - (3) Optimization of total emissions of CO. This optimization should be consistent with the manufacturer's specification and with the boiler's NO<sub>x</sub> limitation.
  - (4) Measurement of the concentrations in the effluent stream of CO in ppmv and oxygen in weight percent before and after adjustments are made.
- (B) The Permittee shall operate and maintain the boiler including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.7500(a)(3)]

#### *c. Record Keeping Requirements*

The Permittee shall make and keep the following records:

- i. Records of annual tune-ups including the following information [40 CFR §63.7540(a)(10)(vi)]
  - (A) The concentrations of CO in the effluent stream in ppmv and oxygen in weight % measured before and after the tune-up of the boiler.
  - (B) A description of any corrective action taken as part of the tune-up.
  - (C) The type and amount of fuel used over the 12 months prior to the tune-up.
- ii. Records sufficient to prove a comprehensive energy assessment was completed including the date on which such energy assessment was conducted. [RCSA §22a-174-4(d)(1)]
- iii. A copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart DDDDD, including all documentation supporting any Notification of Compliance Status or semiannual report submitted. [40 CFR §63.7555(a)(1)]
- iv. If an alternative fuel other than natural gas is used, records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. [40 CFR §63.7555(h)]

#### *d. Reporting Requirements*

The Permittee shall submit the following reports to the commissioner and Administrator:

- i. If the Permittee intends to use a fuel other than natural gas during a period of natural gas curtailment or supply interruption a notification of alternative fuel use shall be submitted to the commissioner and Administrator within 48 hours of the declaration of each period of natural gas curtailment or supply interruption. The notification must include the following information: [40 CFR §63.7545(f)]
  - (A) Company name and address;
  - (B) Identification of the affected unit;
  - (C) Reason for being unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began; and
  - (D) Dates when the alternative fuel use is expected to begin and end.
- ii. The Permittee shall submit a compliance report to the commissioner and Administrator biennially for EU-19 and annually for all other boilers in GEU-5. The report must be postmarked no later than January 31<sup>st</sup> following the end of each applicable reporting period. [40 CFR §63.7550(b)]
  - (A) The compliance report shall contain the following information: [40 CFR §63.7550(c)]
    - (1) Company and facility name and address;



### Section III: Applicable Requirements and Compliance Demonstration

- (2) Process unit information, emissions limitations and operating parameter limitations;
- (3) Date of report and beginning and ending dates of the reporting period;
- (4) The total operating time during the reporting period; and
- (5) The date of the most recent tune-up for each unit and the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown.

(B) The compliance report must be submitted electronically to the Administrator using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)), with a hardcopy to the commissioner. However if the reporting form specific to 40 CFR Part 63 Subpart DDDDD is not available in CEDRI at the time that the report is due, the report shall be submitted to the commissioner and Administrator at the appropriate address listed in Section VI.A of this Title V permit.

#### G. EU-25, MOLD IN PLACE LAND LEVEL FACILITY – Special Hull Treatment Process (Subject to RCSA §§22a-174-20, -44, 40 CFR Part 63 Subpart II and P-070-0094)

##### 1. PM-10 Emissions

a. *Limitations or Restrictions*  
[P-070-0094]

≤ 52.6 lb/h, ≤ 0.38 tpy

b. *Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the emission limit using an emission factor of 40 lb particulate/2000 lb blast media, 131.4 tons/h potential usage of blast media and a control efficiency of 99%. [P-070-0094]

c. *Record Keeping Requirements*

i. The Permittee shall make and keep records demonstrating that the hourly emission limit is not exceeded, including the method used to arrive at the calculated values.  
[RCSA §22a-174-33(j)(1)(K)(ii)]

ii. The Permittee shall record monthly and annual quantity of grit blast media usage. [P-070-0094]

iii. The Permittee shall calculate annual emissions each month by adding the current month's emissions to that of the previous 11 months. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. *Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

##### 2. VOC Emissions

a. *Limitations or Restrictions*

≤ 515 lb/h, ≤ 21.0 tpy

[P-070-0094]

b. *Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the emission limits through records of coating usage and emissions calculations. [P-070-0094, RCSA §22a-174-33(j)(1)(K)(ii)]

c. *Record Keeping Requirements*

### **Section III: Applicable Requirements and Compliance Demonstration**

The Permittee shall make and keep the following records:

- i. Records demonstrating that the hourly emission limit is not exceeded, including the method used to arrive at the calculated values. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. Make calculations of annual emissions each month by adding the current month's emissions to that of the previous 11 months. [RCSA §22a-174-33(j)(1)(K)(ii)]
- iii. The Permittee shall record the annual quantity of VOC-containing material used at the facility, based on any consecutive 12 month period. The annual usage shall be calculated by adding the current month's usage to that of the previous 11 months. The Permittee shall make these calculations monthly. [P-070-0094]

*d. Reporting Requirements*

The Permittee shall provide the records specified in Section III.G.2.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

**3. VOC Emissions (40 CFR §63.780)**

*a. Limitations or Restrictions*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*b. Monitoring and Testing Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*c. Record Keeping Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*d. Reporting Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

**4. VOC Emissions (RCSA §22a-174-20(ii))**

*a. Limitations or Restrictions*

The Permittee shall comply with the industrial solvent cleaning requirements of RCSA §22a-174-20(ii) for any solvent cleaning or surface preparation that is not performed to meet a standard or specification issued or approved by the US Department of Defense. [RCSA §22a-174-20(ii)(3)(A)(viii)]

*b. Monitoring Requirements*

Record keeping specified in Section III.G.4.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

The Permittee shall maintain records of US Department of Defense standards or specifications met to qualify for exemption from industrial solvent cleaning requirements specified by RCSA §22a-174-20(ii). [RCSA §22a-174-20(ii)(3)(A)(viii)]

*d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30

### Section III: Applicable Requirements and Compliance Demonstration

days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### 5. Spray Gun Cleaning (RCSA §22a-174-20(jj))

##### a. Limitations or Restrictions

- i. The Permittee shall clean spray gun equipment in accordance with one of the following procedures:
  - (A) Use an enclosed gun cleaner that is maintained and operated in accordance with the manufacturer's recommendations and the following practices,
    - (1) Operate using an automated cycle, if applicable,
    - (2) Inspect hoses regularly for leaks,
    - (3) If a leak is discovered, repair as soon as practicable but no later than 15 days after discovery, and
    - (4) Ensure the cover is properly closed;
  - (B) Placing cleaning solvent in the pressure pot and forcing the solvent through the gun with the atomizing cap in place, without the use of atomizing air. Used cleaning solvent shall be directed into a vat, drum or other waste container that is closed when not in use;
  - (C) Disassembling the spray gun and cleaning the components and associated hoses and pumps by hand in a vat, which shall remain closed at all times except when in use. Components and associated hoses and pumps may be soaked in a vat with a capacity no greater than 20 liters. Such a soaking vat shall remain closed during the soaking period, except when inserting or removing items;
  - (D) Forcing cleaning solvent through the spray gun and directing the atomized solvent spray into a waste container that is fitted with a device to capture the resulting emissions; or
  - (E) Installing, operating and maintaining air pollution control equipment that reduces uncontrolled VOC emissions to the atmosphere from any spray application equipment cleaning by an overall control efficiency of at least 85%. [RCSA §22a-172-20(jj)(4)]

##### b. Work Practices

The Permittee shall use the following work practices:

- i. New and used cleaning solvent, including those mixed on the premises, shall be stored in a nonabsorbent, non-leaking container. Such a container shall be kept closed at all times except when the container is being filled, emptied or is otherwise actively in use. [RCSA §22a-174-20(jj)(5)(A)]
- ii. Spills and leaks of cleaning solvent shall be minimized. Any leaked or spilled solvent shall be absorbed and removed immediately. [RCSA §22a-174-20(jj)(5)(B)]
- iii. Absorbent applicators, such as cloth and paper that are moistened with cleaning solvent shall be stored in a closed, non-absorbent, non-leaking container for disposal or recycling. [RCSA §22a-174-20(jj)(5)(C)]
- iv. Cleaning solvent shall be conveyed from one location to another in a closed container or pipe. [RCSA §22a-174-20(jj)(5)(D)]
- v. Air pollution control equipment shall be operated and maintained in accordance with the manufacturer's recommendations. [RCSA §22a-174-20(jj)(5)(E)]

##### c. Record Keeping Requirements

The Permittee shall make and maintain the daily records of all cleaning solvents as follows:

### **Section III: Applicable Requirements and Compliance Demonstration**

- i. Name and description of each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(i)]
- ii. VOC content of each solvent, as applied, and the associated calculations. [RCSA §22a-174-20(jj)(6)(B)(ii)]
- iii. VOC content of each solvent, as supplied. [RCSA §22a-174-20(jj)(6)(B)(iii)];
- iv. The amount of each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(iv)]
- v. A Material Safety Data Sheet for each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(v)]
- vi. A description of the type of cleaning equipment and process. [RCSA §22a-174-20(jj)(6)(B)(vi)]
- vii. Documentation of control device efficiency and capture efficiency, if applicable using an applicable EPA reference method or alternate method as approved by the commissioner. [RCSA §22a-174-20(jj)(6)(B)(vii)]
- viii. Date and type of maintenance performed on air pollution control equipment, if applicable. [RCSA §22a-174-20(jj)(6)(B)(viii)]
- ix. Records described above shall be made available to the commissioner to inspect and copy upon request and shall be maintained for five years from the date such records are created. [RCSA §22a-174-20(jj)(6)(A)]

#### *d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### **6. Adhesives (RCSA §22a-174-44)**

#### *a. Limitations or Restrictions*

The requirements of RCSA §22a-174-44 shall not apply to adhesives, cleanup solvents and surface preparation solvents used in the assembly, repair and manufacture of submarines, when the use of a non-complying adhesive or solvent is necessary to meet military performance specifications, provided that records of the use of such noncompliant adhesives or solvents are maintained as specified in Section III.G.6.c of this Title V permit. [RCSA §22a-174-44(c)(1)(H)]

#### *b. Monitoring and Testing Requirements*

Record keeping specified in Section III.G.6.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

The Permittee shall maintain records of the information necessary and sufficient for the commissioner to determine compliance with the applicable requirements of RCSA §22a-174-44. Such information may include:

- i. A list of each adhesive, sealant adhesive primer, sealant primer, cleanup solvent and surface preparation solvent in use and in storage [RCSA §22a-174-44(f)(1)(A)];
- ii. Identification of each adhesive, sealant, adhesive primer, sealant primer, cleanup solvent and surface preparation solvent by product name and description [RCSA §22a-174-44(f)(1)(B)];
- iii. The VOC content of each adhesive, sealant, adhesive primer, sealant primer, cleanup solvent and surface preparation solvent product as supplied [RCSA §22a-174-44(f)(1)(C)];
- iv. The mix ratio of any catalysts, reducers or other components used [RCSA §22a-174-44(f)(1)(D)];
- v. The final VOC content or vapor pressure of each adhesive sealant, adhesive primer, sealant primer,

### **Section III: Applicable Requirements and Compliance Demonstration**

cleanup solvent and surface preparation solvent as applied [RCSA §22a-174-44(f)(1)(E)]; or

- vi. The monthly volume of each adhesive sealant, adhesive primer, sealant primer, cleanup solvent and surface preparation solvent used [RCSA §22a-174-44(f)(1)(F)].

#### *d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### **H. EU-26, BUILDING 51 – Spray Booth Operations (Subject to RCSA §22a-174-20, 40 CFR Part 63 Subpart II and P-070-0241)**

#### **1. PM Emissions**

##### *a. Limitations or Restrictions* [P-070-0241]

≤ 0.14 tpy

##### *b. Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the emission limit using a conventional spray gun transfer efficiency of 65% and a waterwall control efficiency of 95%. [P-070-0241]

##### *c. Record Keeping Requirements*

The Permittee shall make and maintain the following records:

- i. Monthly records of all coating usage. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. Make calculations of annual emissions each month by adding the current month's emissions to that of the previous 11 months. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### *d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### **2. VOC Emissions**

##### *a. Limitations or Restrictions* [P-070-0241]

i. ≤ 0.85 tpy

ii. Maximum hourly coating usage: 2.8 gal

iii. Maximum annual coating usage: 1,000 gal

iv. Maximum hourly usage of VOC containing solvent: 0.5 gal

v. Maximum annual weight of VOC in cleanup solvent: 700 lb

##### *b. Monitoring and Testing Requirements*

- i. The Permittee shall demonstrate compliance with the emission limits through records of coating usage and emissions calculations based on Material Safety Data Sheets or technical data sheets of the coatings and solvents used. [P-070-0241, RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. Legible signs shall be posted, maintained, and kept clearly visible at all times in both the paint blending and spray booth areas which clearly specify the allowable gallon per hour application rates.

### Section III: Applicable Requirements and Compliance Demonstration

[P-070-0241]

*c. Record Keeping Requirements*

The Permittee shall make and maintain the following records:

i. The following daily records:

[P-070-0241]

- (A) Date coating used;
- (B) Description of coating, including name and density (lb/gal);
- (C) Volatile organic compound content by weight (lb VOC/gal);
- (D) Water and exempt VOC content by weight;
- (E) Non-volatile content by volume and weight;
- (F) Volume of coating used; and
- (G) Volume of diluent used for each coating.

ii. Records of daily and 12 month average VOC emissions as well as cumulative year-to-date coating usage and VOC emissions. [P-070-0241]

iii. The 12 month record of VOC emissions shall be determined by adding the current month's record to that of the previous eleven months. The Permittee shall make these calculations on a monthly basis. [P-070-0241]

iv. Annual records of the type and quantity of any solvent used to clean the guns and booth. In addition, accurate annual records must be kept of the quantity and type of solvents spilled, evaporated, or manifested as waste material. [P-070-0241]

v. Material Safety Data Sheets or technical data sheets of each coating and diluent used. [P-070-0241]

*d. Reporting Requirements*

The Permittee shall submit reports of any exceedances of the material usage or emission limitations, set forth in this Title V permit to the Department in writing within 30 days of the date of such exceedance. Such report shall at a minimum, include a description of the nature of the exceedance, the duration and magnitude of the exceedance, the steps taken to reestablish compliance and the success of such steps, and the steps taken to assure that compliance is maintained in the future. [P-070-0241]

### 3. VOC Emissions (40 CFR §63.780)

*a. Limitations or Restrictions*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*b. Monitoring and Testing Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*c. Record Keeping Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*d. Reporting Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface

### Section III: Applicable Requirements and Compliance Demonstration

Coating) of this Title V permit.

#### 4. VOC Emissions (RCSA §22a-174-20(ii))

##### a. Limitations or Restrictions

The Permittee shall comply with the industrial solvent cleaning requirements of RCSA §22a-174-20(ii) for any solvent cleaning or surface preparation that is not performed to meet a standard or specification issued or approved by the US Department of Defense. [RCSA §22a-174-20(ii)(3)(A)(vii)]

##### b. Monitoring Requirements

Record keeping specified in Section III.H.4.c. of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### c. Record Keeping Requirements

The Permittee shall maintain records of US Department of Defense standards or specifications met to qualify for exemption from industrial solvent cleaning requirements specified by RCSA §22a-174-20(ii). [RCSA §22a-174-20(ii)(3)(A)(vii)]

##### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### 5. Spray Gun Cleaning (RCSA §22a-174-20(jj))

##### a. Limitations or Restrictions

[RCSA §22a-172-20(jj)(4)]

i. The Permittee shall clean spray gun equipment in accordance with one of the following procedures:

- (A) Use an enclosed gun cleaner that is maintained and operated in accordance with the manufacturer's recommendations and the following practices,
  - (1) Operate using an automated cycle, if applicable;
  - (2) Inspect hoses regularly for leaks;
  - (3) If a leak is discovered, repair as soon as practicable but no later than 15 days after discovery; and
  - (4) Ensure the cover is properly closed.
- (B) Placing cleaning solvent in the pressure pot and forcing the solvent through the gun with the atomizing cap in place, without the use of atomizing air. Used cleaning solvent shall be directed into a vat, drum or other waste container that is closed when not in use;
- (C) Disassembling the spray gun and cleaning the components and associated hoses and pumps by hand in a vat, which shall remain closed at all times except when in use. Components and associated hoses and pumps may be soaked in a vat with a capacity no greater than 20 liters. Such a soaking vat shall remain closed during the soaking period, except when inserting or removing items;
- (D) Forcing cleaning solvent through the spray gun and directing the atomized solvent spray into a waste container that is fitted with a device to capture the resulting emissions; or
- (E) Installing, operating and maintaining air pollution control equipment that reduces uncontrolled VOC emissions to the atmosphere from any spray application equipment cleaning by an overall control efficiency of at least 85%. [RCSA §22a-172-20(jj)(4)]

### Section III: Applicable Requirements and Compliance Demonstration

#### b. Work Practices

The Permittee shall use the following work practices:

- i. New and used cleaning solvent, including those mixed on the premises, shall be stored in a nonabsorbent, non-leaking container. Such a container shall be kept closed at all times except when the container is being filled, emptied or is otherwise actively in use. [RCSA §22a-174-20(jj)(5)(A)]
- ii. Spills and leaks of cleaning solvent shall be minimized. Any leaked or spilled solvent shall be absorbed and removed immediately. [RCSA §22a-174-20(jj)(5)(B)]
- iii. Absorbent applicators, such as cloth and paper that are moistened with cleaning solvent shall be stored in a closed, non-absorbent, non-leaking container for disposal or recycling. [RCSA §22a-174-20(jj)(5)(C)]
- iv. Cleaning solvent shall be conveyed from one location to another in a closed container or pipe. [RCSA §22a-174-20(jj)(5)(D)]
- v. Air pollution control equipment shall be operated and maintained in accordance with the manufacturer's recommendations. [RCSA §22a-174-20(jj)(5)(E)]

#### c. Record Keeping Requirements

The Permittee shall maintain the daily records of all cleaning solvents as follows:

- i. Name and description of each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(i)]
- ii. VOC content of each solvent, as applied, and the associated calculations. [RCSA §22a-174-20(jj)(6)(B)(ii)]
- iii. VOC content of each solvent, as supplied. [RCSA §22a-174-20(jj)(6)(B)(iii)]
- iv. The amount of each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(iv)]
- v. A Material Safety Data Sheet for each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(v)]
- vi. A description of the type of cleaning equipment and process. [RCSA §22a-174-20(jj)(6)(B)(vi)]
- vii. Documentation of control device efficiency and capture efficiency, if applicable using an applicable EPA reference method or alternate method as approved by the commissioner. [RCSA §22a-174-20(jj)(6)(B)(vii)]
- viii. Date and type of maintenance performed on air pollution control equipment, if applicable. [RCSA §22a-174-20(jj)(6)(B)(viii)]
- ix. Records described above shall be made available to the commissioner to inspect and copy upon request and shall be maintained for five years from the date such records are created. [RCSA §22a-174-20(jj)(6)(A)]

#### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### I. EU-27, BLASTEC ABRASIVE BLASTING CHAMBER – Building 212 (Subject to P-070-0255)

#### 1. Operational Conditions

##### a. Limitations or Restrictions

[P-070-0255]

- i. PM/PM-10 emissions:  $\leq 1.1$  lb/h,  $\leq 4.7$  tpy



### **Section III: Applicable Requirements and Compliance Demonstration**

- ii. Allowable abrasive material: steel shot
- iii. The maximum quantity of abrasive material shall not exceed  $3.5 \times 10^8$  lb/yr (based on 40,000 lb/hr maximum blast capacity)
- iv. Minimum baghouse pressure drop: 0.25 in. H<sub>2</sub>O
- v. Maintain negative pressure on blasting operations

#### *b. Monitoring and Testing Requirements*

- i. The Permittee shall demonstrate compliance with the emission limits by making and keeping monthly records of the quantity of abrasive used. [P-070-0255]
- ii. The Permittee shall monitor the pressure drop across the baghouse filter. [P-070-0255]

#### *c. Record Keeping Requirements*

The Permittee shall make and keep the following records:

- i. Record the date and details of all repairs and maintenance to the baghouse and exhaust systems, maintaining a particulate removal efficiency of 99%. [P-070-0255, RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. Record the pressure drop as in. H<sub>2</sub>O across the filter at least once per day of abrasive blasting. [P-070-0255]
- iii. Record the quantity of abrasive used, based on any consecutive 12 month time period and determined for each abrasive used, by adding each month's abrasive used to that of the previous 11 months. The Permittee shall make this calculation monthly. [P-070-0255]

#### *d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### **J. EU-29, WHEELABRATOR-96 AND BAGHOUSE – Building 212 (Subject to R-070-0075 and R-070-0076)**

#### **1. PM-10 Emissions**

##### *a. Limitations or Restrictions*

The Permittee shall maintain a minimum particulate removal efficiency of 99% of particulate entering the pollution control equipment [RCSA §22a-174-33(j)(1)(K)(ii)]

##### *b. Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the emission limit using a baghouse with a minimum control efficiency of 99%. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### *c. Record Keeping Requirements*

The Permittee shall make and keep the following records:

- i. Record the date and details of all repairs and maintenance to the baghouse and exhaust systems, maintaining a particulate removal efficiency of 99%. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. Record the pressure drop as in. H<sub>2</sub>O across the filter at least once per operational shift of abrasive blasting. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### *d. Reporting Requirements*

### **Section III: Applicable Requirements and Compliance Demonstration**

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### **K. EU-30, SHIP HULL ABRASIVE GRIT BLASTING – Graving Dock #2 (Subject to R-070-0094)**

##### **1. Material Usage**

*a. Limitations or Restrictions*  
[R-070-0094]

2010 tpy of abrasive grit

*b. Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the material usage limit by making and keeping monthly records of the quantity of abrasive grit used. [RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

The Permittee shall calculate annual usage each month by adding the current month's usage to that of the previous 11 months. [RCSA §22a-174-33(j)(1)(K)(ii)]

*d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### **L. EU-31, SHIP HULL PAINTING – Graving Dock #2 and Land Level Facility (Subject to RCSA §22a-174-20, 40 CFR Part 63 Subpart II and R-070-0095)**

##### **1. VOC Emissions (40 CFR §63.780)**

*a. Limitations or Restrictions*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*b. Monitoring and Testing Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*c. Record Keeping Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*d. Reporting Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

##### **2. VOC Emissions (RCSA §22a-174-20(ii))**

*a. Limitations or Restrictions*

The Permittee shall comply with the industrial solvent cleaning requirements of RCSA §22a-174-20(ii) for any solvent cleaning or surface preparation that is not performed to meet a standard or specification issued or approved by the US Department of Defense. [RCSA §22a-174-20(ii)(3)(A)(vii)]

*b. Monitoring Requirements*

### **Section III: Applicable Requirements and Compliance Demonstration**

Record keeping specified in Section III.L.1.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

The Permittee shall maintain records of US Department of Defense standards or specifications met to qualify for exemption from industrial solvent cleaning requirements specified by RCSA §22a-174-20(ii). [RCSA §22a-174-20(ii)(3)(A)(vii)]

*d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### **3. Spray Gun Cleaning (RCSA §22a-174-20(jj))**

*a. Limitations or Restrictions*

[RCSA §22a-172-20(jj)(4)]

- i. The Permittee shall clean spray gun equipment in accordance with one of the following procedures:
  - (A) Use an enclosed gun cleaner that is maintained and operated in accordance with the manufacturer's recommendations and the following practices,
    - (1) Operate using an automated cycle, if applicable;
    - (2) Inspect hoses regularly for leaks;
    - (3) If a leak is discovered, repair as soon as practicable but no later than 15 days after discovery; and
    - (4) Ensure the cover is properly closed.
  - (B) Placing cleaning solvent in the pressure pot and forcing the solvent through the gun with the atomizing cap in place, without the use of atomizing air. Used cleaning solvent shall be directed into a vat, drum or other waste container that is closed when not in use;
  - (C) Disassembling the spray gun and cleaning the components and associated hoses and pumps by hand in a vat, which shall remain closed at all times except when in use. Components and associated hoses and pumps may be soaked in a vat with a capacity no greater than 20 liters. Such a soaking vat shall remain closed during the soaking period, except when inserting or removing items;
  - (D) Forcing cleaning solvent through the spray gun and directing the atomized solvent spray into a waste container that is fitted with a device to capture the resulting emissions; or
  - (E) Installing, operating and maintaining air pollution control equipment that reduces uncontrolled VOC emissions to the atmosphere from any spray application equipment cleaning by an overall control efficiency of at least 85%. [RCSA §22a-172-20(jj)(4)]

*b. Work Practices*

The Permittee shall use the following work practices:

- i. New and used cleaning solvent, including those mixed on the premises, shall be stored in a nonabsorbent, non-leaking container. Such a container shall be kept closed at all times except when the container is being filled, emptied or is otherwise actively in use. [RCSA §22a-174-20(jj)(5)(A)]
- ii. Spills and leaks of cleaning solvent shall be minimized. Any leaked or spilled solvent shall be absorbed and removed immediately. [RCSA §22a-174-20(jj)(5)(B)]

### Section III: Applicable Requirements and Compliance Demonstration

- iii. Absorbent applicators, such as cloth and paper that are moistened with cleaning solvent shall be stored in a closed, non-absorbent, non-leaking container for disposal or recycling. [RCSA §22a-174-20(jj)(5)(C)]
- iv. Cleaning solvent shall be conveyed from one location to another in a closed container or pipe. [RCSA §22a-174-20(jj)(5)(D)]
- v. Air pollution control equipment shall be operated and maintained in accordance with the manufacturer's recommendations. [RCSA §22a-174-20(jj)(5)(E)]

#### c. Record Keeping Requirements

The Permittee shall maintain the daily records of all cleaning solvents as follows:

- i. Name and description of each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(i)]
- ii. VOC content of each solvent, as applied, and the associated calculations. [RCSA §22a-174-20(jj)(6)(B)(ii)]
- iii. VOC content of each solvent, as supplied. [RCSA §22a-174-20(jj)(6)(B)(iii)]
- iv. The amount of each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(iv)]
- v. A Material Safety Data Sheet for each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(v)]
- vi. A description of the type of cleaning equipment and process. [RCSA §22a-174-20(jj)(6)(B)(vi)]
- vii. Documentation of control device efficiency and capture efficiency, if applicable using an applicable EPA reference method or alternate method as approved by the commissioner. [RCSA §22a-174-20(jj)(6)(B)(vii)]
- viii. Date and type of maintenance performed on air pollution control equipment, if applicable. [RCSA §22a-174-20(jj)(6)(B)(viii)]
- ix. Records described above shall be made available to the commissioner to inspect and copy upon request and shall be maintained for five years from the date such records are created. [Permittee §22a-174-20(jj)(6)(A)]

#### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### M. EU-32, SPRAY PAINTING, Building #212

(Subject to RCSA §22a-174-20, 40 CFR Part 63 Subpart II and R-070-0227)

#### 1. VOC Emissions [R-070-0227]

##### a. Limitations or Restrictions [R-070-0227]

≤ 8.44 tpy

##### b. Monitoring and Testing Requirements

The Permittee shall demonstrate compliance with the emission limits through records of coating usage and emissions calculations. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. Calculate annual emissions each month by adding the current month's emissions to that of the

### **Section III: Applicable Requirements and Compliance Demonstration**

previous 11 months. [RCSA §22a-174-33(j)(1)(K)(ii)]

*d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

**2. VOC Emissions (40 CFR §63.780)**

*a. Limitations or Restrictions*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*b. Monitoring and Testing Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*c. Record Keeping Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

*d. Reporting Requirements*

The Permittee shall comply with Section III.T: NESHAP for Shipbuilding and Ship Repair (Surface Coating) of this Title V permit.

**3. VOC Emissions (RCSA §22a-174-20(ii))**

*a. Limitations or Restrictions*

The Permittee shall comply with the industrial solvent cleaning requirements of RCSA §22a-174-20(ii) for any solvent cleaning or surface preparation that is not performed to meet a standard or specification issued or approved by the US Department of Defense. [RCSA §22a-174-20(ii)(3)(A)(vii)]

*b. Monitoring Requirements*

Record keeping specified in Section III.M.1.c. of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

The Permittee shall maintain records of US Department of Defense standards or specifications met to qualify for exemption from industrial solvent cleaning requirements specified by RCSA §22a-174-20(ii). [RCSA §22a-174-20(ii)(3)(A)(vii)]

*d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

**4. Spray Gun Cleaning (RCSA §22a-174-20(jj))**

*a. Limitations or Restrictions*

[RCSA §22a-172-20(jj)(4)]

*i. The Permittee shall clean spray gun equipment in accordance with one of the following procedures:*

- (A) Use an enclosed gun cleaner that is maintained and operated in accordance with the manufacturer's recommendations and the following practices,

### Section III: Applicable Requirements and Compliance Demonstration

- (1) Operate using an automated cycle, if applicable,
  - (2) Inspect hoses regularly for leaks,
  - (3) If a leak is discovered, repair as soon as practicable but no later than 15 days after discovery, and
  - (4) Ensure the cover is properly closed;
- (B) Placing cleaning solvent in the pressure pot and forcing the solvent through the gun with the atomizing cap in place, without the use of atomizing air. Used cleaning solvent shall be directed into a vat, drum or other waste container that is closed when not in use;
- (C) Disassembling the spray gun and cleaning the components and associated hoses and pumps by hand in a vat, which shall remain closed at all times except when in use. Components and associated hoses and pumps may be soaked in a vat with a capacity no greater than 20 liters. Such a soaking vat shall remain closed during the soaking period, except when inserting or removing items;
- (D) Forcing cleaning solvent through the spray gun and directing the atomized solvent spray into a waste container that is fitted with a device to capture the resulting emissions; or
- (E) Installing, operating and maintaining air pollution control equipment that reduces uncontrolled VOC emissions to the atmosphere from any spray application equipment cleaning by an overall control efficiency of at least 85%. [RCSA §22a-172-20(jj)(4)]

#### *b. Work Practices*

The Permittee shall use the following work practices:

- i. New and used cleaning solvent, including those mixed on the premises, shall be stored in a nonabsorbent, non-leaking container. Such a container shall be kept closed at all times except when the container is being filled, emptied or is otherwise actively in use. [RCSA §22a-174-20(jj)(5)(A)]
- ii. Spills and leaks of cleaning solvent shall be minimized. Any leaked or spilled solvent shall be absorbed and removed immediately. [RCSA §22a-174-20(jj)(5)(B)]
- iii. Absorbent applicators, such as cloth and paper that are moistened with cleaning solvent shall be stored in a closed, non-absorbent, non-leaking container for disposal or recycling. [RCSA §22a-174-20(jj)(5)(C)]
- iv. Cleaning solvent shall be conveyed from one location to another in a closed container or pipe. [Permittee §22a-174-20(jj)(5)(D)]
- v. Air pollution control equipment shall be operated and maintained in accordance with the manufacturer's recommendations. [RCSA §22a-174-20(jj)(5)(E)]

#### *c. Record Keeping Requirements*

The Permittee shall maintain the daily records of all cleaning solvents as follows:

- i. Name and description of each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(i)]
- ii. VOC content of each solvent, as applied, and the associated calculations. [RCSA §22a-174-20(jj)(6)(B)(ii)]
- iii. VOC content of each solvent, as supplied. [RCSA §22a-174-20(jj)(6)(B)(iii)]
- iv. The amount of each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(iv)]
- v. A Material Safety Data Sheet for each cleaning solvent. [RCSA §22a-174-20(jj)(6)(B)(v)]
- vi. A description of the type of cleaning equipment and process. [RCSA §22a-174-20(jj)(6)(B)(vi)]

### Section III: Applicable Requirements and Compliance Demonstration

- vii. Documentation of control device efficiency and capture efficiency, if applicable using an applicable EPA reference method or alternate method as approved by the commissioner.  
[RCSA §22a-174-20(jj)(6)(B)(vii)]
- viii. Date and type of maintenance performed on air pollution control equipment, if applicable.  
[RCSA §22a-174-20(jj)(6)(B)(viii)]
- ix. Records described above shall be made available to the commissioner to inspect and copy upon request and shall be maintained for five years from the date such records are created.  
[Permittee §22a-174-20(jj)(6)(A)]

#### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### N. EU-33, ABRASIVE BLASTING CABINET – Building 129 (Subject to P-070-0269)

#### 1. PM, PM-10/2.5 Emissions

##### a. Limitations or Restrictions

[P-070-0269]

- i. Maximum abrasive media (Black Beauty and aluminum oxide) usage rate of 540,200 tpy
- ii.  $\leq 0.0002$  lb/h PM, PM-10 and PM-2.5
- iii.  $\leq 0.00015$  tpy PM, PM-10 and PM-2.5

##### b. Monitoring and Testing Requirements

The Permittee shall demonstrate compliance with the emission limits by making and keeping monthly records of the quantity of grit blast media used and utilizing emission factors from AP-42 Table 13.2.6-1, 9/97 edition. [P-070-0269]

##### c. Record Keeping Requirements

The Permittee shall record monthly and annual grit blast usage. The annual usage shall be determined by adding the current month's usage to the previous 11 month's usage. [P-070-0269]

##### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### O. GEU-6 [EU-35-41], EMERGENCY DIESEL GENERATORS (Subject to 40 CFR Part 63 Subpart ZZZZ)

#### 1. Operational Conditions

##### a. Limitation or Restriction

- i. The Permittee shall comply with the following requirements.  
[40 CFR §63.6602 and §63.6640(f)(1)(ii)]:
  - (A) Limit the operation of each engine for maintenance and readiness checks to 100 hours per year.  
[40 CFR §63.6640(f)(1)(ii)]
  - (B) Change the oil and filter for each engine every 500 hours of operation or annually, whichever comes first. [40 CFR §63.6602]

### **Section III: Applicable Requirements and Compliance Demonstration**

- (C) Inspect the air cleaner of each engine every 1000 hours of operation or annually, whichever comes first. [40 CFR §63.6602]
- (D) Inspect all hoses and belts on each engine every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6602]
- (E) Minimize each engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6602]

#### *b. Monitoring and Testing Requirements*

- i. The Permittee shall monitor the hours of operation of each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall use a non-resettable hour meter on each engine. [40 CFR §63.6625(f)]
- iii. The Permittee shall operate and maintain each engine according to the manufacturer's emission-related operation and maintenance instructions or shall develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6640(a)]

#### *c. Record Keeping Requirements*

The Permittee shall make and maintain records of the hours of operation for each engine for each month and each 12 month rolling aggregate. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### **P. GEU-8 Small Boilers (Subject to 40 CFR Part 63 Subpart DDDDD)**

#### **1. 40 CFR Part 63 Subpart DDDDD**

##### *a. Subcategory*

Each boiler in GEU-8 is classified as an existing boiler with heat input capacity less than 10 MMBtu/hr, in the "Unit designed to burn light liquid subcategory", as defined by 40 CFR §§63.7490 and 63.7575. No numeric emission limits apply to the boilers in GEU-8.

##### *b. Work Practice Standards*

- i. The Permittee shall comply with the following work practice standards:
  - (A) Conduct an initial tune-up of each boiler. Subsequent tune-ups shall be conducted once every five years. The tune-up shall include the following items: [40 CFR §§63.7510(e), 63.7540(a)(10) and 63.7540(a)(11)]
    - (1) An inspection of the burner, cleaning and replacement of any components of the burner, as necessary.
    - (2) An inspection of the flame pattern and adjustment of the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications.
    - (3) Optimization of total emissions of CO. This optimization should be consistent with the manufacturer's specification and with the boiler's NO<sub>x</sub> limitation.



### **Section III: Applicable Requirements and Compliance Demonstration**

(4) Measurement of the concentrations in the effluent stream of CO in ppmv and oxygen in weight percent before and after adjustments are made.

(B) The Permittee shall operate and maintain the boiler including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.7500(a)(3)]

#### *c. Record Keeping Requirements*

The Permittee shall make and keep the following records:

i. Records of five-year tune-ups including the following information [40 CFR 63.7540(a)(12)]

(A) The concentrations of CO in the effluent stream in ppmv and oxygen in weight % measured before and after the tune-up of the boiler.

(B) A description of any corrective action taken as part of the tune-up.

(C) The type and amount of fuel used over the 12 months prior to the tune-up.

ii. Records sufficient to prove a comprehensive energy assessment was completed including the date on which such energy assessment was conducted. [RCSA §22a-174-4(d)(1)]

iii. A copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart DDDDD, including all documentation supporting any Notification of Compliance Status or semiannual report submitted. [40 CFR §63.7555(a)(1)]

#### *d. Reporting Requirements*

The Permittee shall submit the following reports to the commissioner and Administrator:

i. The Permittee shall submit a compliance report to the commissioner and Administrator every five years for the boilers in GEU-8. The report must be postmarked no later than January 31<sup>st</sup> following the end of each applicable reporting period. [40 CFR §63.7550(b)]

(A) The compliance report shall contain the following information: [40 CFR §63.7550(c)]

(1) Company and facility name and address;

(2) Process unit information, emissions limitations and operating parameter limitations;

(3) Date of report and beginning and ending dates of the reporting period;

(4) The total operating time during the reporting period; and

(5) The date of the most recent tune-up for each unit and the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown.

(B) The compliance report must be submitted electronically to the Administrator using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)), with a hardcopy to the commissioner. However if the reporting form specific to 40 CFR Part 63 Subpart DDDDD is not available in CEDRI at the time that the report is due, the report shall be submitted to the commissioner and Administrator at the appropriate address listed in Section VI.A of this Title V permit.

### **Q. EU-101, ABRASIVE BLAST ROOM – Building 1 (Subject to P-070-0280)**

#### **1. PM-10/PM-2.5 Emissions**

*a. Limitations or Restrictions*  
[P-070-0280]

### **Section III: Applicable Requirements and Compliance Demonstration**

- i. Maximum annual blast media usage - 5,880 tons of aluminum oxide abrasive grit
- ii.  $\leq 0.00008$  lb/h PM-10,  $\leq 0.00001$  lb/h PM-2.5
- iii.  $\leq 0.00033$  tpy PM-10,  $\leq 0.00003$  tpy PM-2.5
- iv. The Permittee shall maintain the abrasive blast room at a negative pressure.

*b. Monitoring and Testing Requirements*  
[P-070-0280]

- i. The Permittee shall monitor the pressure drop across the control device and insure it is within the manufacturer's recommended limits.
- ii. The Permittee shall demonstrate compliance with the emission limits by making and keeping monthly records of the quantity of grit blast media used and utilizing emission factors from AP-42, Table 13.2.6. 9/97 edition and manufacturer's data.

*c. Record Keeping Requirements*

The Permittee shall make and keep the following records:  
[P-070-0280]

- i. Records of the quantity of abrasive used during any consecutive 12 month time period by adding each month's abrasive use to that of the previous 11 months. The Permittee shall make this calculation monthly.
- ii. Record the date and details of all repairs and maintenance to the abrasive blast system and control equipment.

*d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

**R. EU-102 – Babcock and Wilcox FMO-66 Boiler**  
**(Subject to P-070-0284, RCSA §§22a-174-22e, 40 CFR Part 60 Subpart Db, 40 CFR Part 63 Subpart DDDDD)**

**1. Maximum Annual Fuel Usage**

*a. Limitations or Restrictions*

The maximum fuel consumption over any consecutive 12 month period shall not exceed 96 MMft<sup>3</sup> of natural gas. [P-070-0284]

*b. Monitoring and Testing Requirements*

The Permittee shall continuously monitor fuel consumption using a non-resettable totalizing fuel meter. [P-070-0284]

*c. Record Keeping Requirements*

The Permittee shall record the monthly and consecutive 12 month fuel consumption. The consecutive 12 month fuel consumption shall be determined by adding the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P-070-0284, 40 CFR 60.49b(d)(2)]

*d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner,

### Section III: Applicable Requirements and Compliance Demonstration

whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### 2. PM/PM-10/PM-2.5, SO<sub>x</sub>, VOC and CO Emissions

*a. Limitations or Restrictions*  
[P-070-0284]

i. PM/PM-10/PM-2.5  
≤ 1.9 lb/h, ≤ 0.8 tpy

ii. SO<sub>2</sub>  
≤ 0.1 lb/h, ≤ 0.03 tpy

iii. VOC  
≤ 0.5 lb/h, ≤ 0.2 tpy

iv. CO  
≤ 8.9 lb/h, ≤ 3.5 tpy

*b. Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the emission limits by calculating the emission rates using emission factors from AP-42 (7/98), manufacturer's guarantee or stack test results. [P-070-0284]

*c. Record Keeping Requirements*

The Permittee shall make and maintain records of emissions calculations and emission factors used. [RCSA §22a-174-4(d)(1)]

*d. Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### 3. NO<sub>x</sub> Emissions

*a. Limitations or Restrictions*

≤ 4.4 lb/h, ≤ 0.2 lb/MMBtu, ≤ 1.7 tpy [P-070-0284, RCSA §§22a-174-22e(d)(3)]

*b. Monitoring and Testing Requirements*

i. The Permittee shall conduct an initial emissions test during Phase 1 that is no more than 63 calendar months following the date of the last emissions test performed pursuant to former RCSA §22a-174-22(k). [RCSA 22a-174-22e(l)(4)]

ii. The Permittee shall conduct each emissions test in accordance with RCSA §22a-174-5 and compliance with the emissions limitations of RCSA §22a-174-22e shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period except as follows: [RCSA §22a-174-22e(l)(6)]

(A) As otherwise specified in an applicable New Source Performance Standard in 40 CFR 60; or

(B) If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing where compliance with the emissions limitations of this section shall be determined based on the average of test runs shorter than a one-hour period. For the first time that an emissions unit is tested with a shorter than one-hour test run as provided in this subdivision, approval of the commissioner for a shorter than one-hour test run shall be received prior to

### **Section III: Applicable Requirements and Compliance Demonstration**

testing by submission of a request to the commissioner at least 120 days prior to the scheduled testing. The request shall specify a test run duration and describe why a shorter time period is necessary.

- iii. The Permittee shall demonstrate compliance with the emissions limitations of RCSA §22a-174-22e using sampling and analytical procedures under 40 CFR 60, Appendix A or, for affected units, under 40 CFR 75, or under procedures in RCSA §22a-174-5(d). Sampling shall be conducted when the emission unit is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above 90 percent of maximum capacity, except as follows: [RCSA §22a-174-22e(1)(7)]

- (A) If the commissioner determines that operating at or above 90 percent of maximum capacity for an emission unit during sampling is not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing of an emission unit at an alternative maximum capacity where compliance with the emissions limitations of subsection (d) of this section shall be determined based on operating at or above 90 percent of the alternative maximum capacity approved by the commissioner; and
- (B) Any emission unit that has operated in excess of 100 percent of its maximum capacity at any time since the most recent performance test performed pursuant to this section shall be tested when the emission unit is operating at or above 90 percent of its highest operating rate since the most recent performance test performed pursuant to RCSA §22a-174-22e.

#### *c. Record Keeping Requirements*

The Permittee shall make and maintain the following records:

- i. Monthly and rolling 12 month total fuel use. [P-070-0248]
- ii. Records of all tune-ups, repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)(B)]
- iii. Records of each tune-up conducted pursuant to RCSA §22a-174-22e(i) containing the date the tune-up occurred, the name, title and affiliation of the person performing the tune-up, description of the work performed and procedure used. [RCSA §22a-174-22e(j)(E)]
- iv. Records of the dates and times of all emission testing required by Section III.R.3.b of this Title V permit, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22e(j)(2)(C)]
- v. Copies of all documents submitted to the commissioner pursuant to Section III.R.3 of this Title V permit. [RCSA §22a-174-22e(j)(2)(F)]

#### *d. Reporting Requirements*

The Permittee shall provide the following reports:

- ii. Not more than 60 days after the completion of emission tests, the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22e(k)(1)]

### **4. Opacity**

#### *a. Limitations or Restrictions*

Opacity shall not exceed 10% opacity during any six minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [P-070-0284]

### **5. 40 CFR Part 63 Subpart DDDDD**

#### *a. Subcategory*

### **Section III: Applicable Requirements and Compliance Demonstration**

- i. EU-102 is classified as a “limited use boiler” as defined by 40 CFR §63.7575 due to having a federally enforceable average annual capacity factor of no more than 10 percent.
- ii. In accordance with 40 CFR Part 63 Subpart DDDDD, limited use boilers must complete a tune-up every five years and are not subject to the emission limits in Tables 1, 2, 11 through 13, annual tune-up requirement, the energy assessment requirements in Table 3 or the operating limits in Table 4.

#### *b. Work Practice Standards*

- i. The Permittee shall conduct a tune-up every five years. The tune-up shall include the following: [40 CFR §§63.7510(g), 63.7540(a)(10) and 63.7540(a)(12)]
  - (A) An inspection of the burner, cleaning and replacement of any components of the burners, as necessary
  - (B) An inspection of the flame pattern and adjustment of the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer’s specifications.
  - (C) Optimization of total emissions of CO. This optimization should be consistent with the manufacturer’s specification and with the boiler’s NO<sub>x</sub> limitation.
  - (D) Measurement of the concentrations in the effluent stream of CO in ppmv and oxygen in weight percent before and after adjustments are made.
- ii. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup [40 CFR 63.7540(a)(13)]

#### *c. Record Keeping Requirements*

The Permittee shall make and keep the following records:

- i. The concentrations of CO in the effluent stream in ppmv and oxygen in weight % measured before and after the tune-up of the boiler. [40 CFR §63.7540(a)(10)]
- ii. A description of any corrective action taken as part of the tune-up. [40 CFR §63.7540(a)(10)]
- iii. A copy of each notification and report submitted in accordance with 40 CFR Part 63 Subpart DDDDD, including all documentation supporting any Notification of Compliance Status or semiannual report submitted. [40 CFR §63.7555(a)(1)]

#### *d. Reporting Requirements*

The Permittee shall submit the following report to the commissioner and Administrator:

- i. The Permittee shall submit a compliance report for EU-102 every five years. Each subsequent report must be postmarked no later than January 31<sup>st</sup> following the end of each applicable reporting period in which a tune-up was required. [40 CFR §63.7550(b)]
  - (A) The compliance report must contain the following information: [40 CFR §63.7550(c)]
    - (1) Company and Facility name and address;
    - (2) Process unit information, emissions limitations and operating parameter limitations;
    - (3) Date of report and beginning and ending dates of the reporting period;
    - (4) The total operating time during the reporting period; and
    - (5) The date of the most recent tune-up for each unit and the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown.
  - (B) The compliance report must be submitted electronically to the Administrator using CEDRI that

### Section III: Applicable Requirements and Compliance Demonstration

is accessed through the EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)), with a hardcopy to the commissioner. However if the reporting form specific to 40 CFR Part 63 Subpart DDDDD is not available in CEDRI at the time that the report is due, the report shall be submitted to the commissioner and Administrator at the appropriate address listed in Section VI.A of this Title V permit.

#### S. EU-103, KOHLER DIESEL GENERATOR 125ROZ DIESEL GENERATOR - located on a barge (Subject to P-070-0261)

##### 1. Maximum Fuel Usage

###### a. Limitation or Restriction

[P-070-0261]

- i. The maximum fuel consumption over any consecutive 12 month period shall not exceed 4,850 gallons of diesel fuel.
- ii. 500 hours of operation over any consecutive 12 month period

###### b. Monitoring and Testing Requirements

The Permittee shall monitor the fuel usage, using the hours of operation and the maximum hourly fuel firing rate. [RCSA §22a-174-33(j)(1)(K)(ii)]

###### c. Record Keeping Requirements

The Permittee shall keep records of annual operating hours and fuel consumption. Annual operating hours and fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding the current month's fuel usage and operating hours to that of the previous 11 months. The Permittee shall make these calculations monthly. [P-070-0261]

###### d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

##### 2. TSP/PM-10, NO<sub>x</sub>, VOC and CO Emissions

###### a. Limitations or Restrictions

- i. TSP/PM-10 [P-070-0261]

(A) ≤ 0.42 lb/h

(B) ≤ 0.10 lb/MMBtu

(C) ≤ 0.11 tpy

- ii. NO<sub>x</sub> [P-070-0261]

(A) ≤ 6.00 lb/h

(B) ≤ 4.41 lb/MMBtu

(C) ≤ 1.50 tpy

- iii. VOC [P-070-0261]

(A) ≤ 0.50 lb/h

(B) ≤ 0.36 lb/MMBtu

(C) ≤ 0.12 tpy

### Section III: Applicable Requirements and Compliance Demonstration

iv. CO

(A)  $\leq 1.29$  lb/h [P-070-0261]

(B)  $\leq 0.95$  lb/MMBtu [P-070-0261]

(C)  $\leq 0.32$  tpy [P-070-0261]

(D)  $\leq 230$  ppmvd @ 15% O<sub>2</sub> [40 CFR Part 63 Subpart ZZZZ, Table 2c]

b. *Monitoring and Testing Requirements*

The Permittee shall demonstrate compliance with the emission limits by calculating the emission rates using emission factors from AP-42 (10/96).

c. *Record Keeping Requirements*

The Permittee shall make and maintain records of emissions calculations. [RCSA §22a-174-4(d)(1)]

d. *Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### 3. SO<sub>x</sub>

a. *Limitations or Restrictions*

[P-070-0261]

i.  $\leq 0.40$  lb/h

ii.  $\leq 0.29$  lb/MMBtu

iii.  $\leq 0.10$  tpy

iv.  $\leq 0.05\%$  sulfur by weight (dry basis) in diesel fuel

b. *Monitoring and Testing Requirements*

i. The Permittee shall demonstrate compliance with the emission limits by calculating the emission rates using emission factors from AP-42, 5<sup>th</sup> edition, (10/96). [P-070-0261]

ii. The Permittee shall monitor fuel sulfur content using a shipping receipt and a certification from the fuel supplier certifying the type of fuel in the shipment and weight percent sulfur in the fuel. [P-070-0261]

c. *Record Keeping Requirements*

The Permittee shall make and maintain the following records:

i. Records of emissions calculations for the engine. [RCSA §22a-174-4(d)(1)]

ii. Records of shipping receipts and fuel certifications that include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. [P-070-0261]

d. *Reporting Requirements*

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### Section III: Applicable Requirements and Compliance Demonstration

#### T. 40 CFR PART 63 SUBPART II, NESHAP FOR SHIPBUILDING AND SHIP REPAIR (SURFACE COATING)

##### 1. Emissions Limitations

- a. The Permittee shall not cause or allow the application of any coating to a ship with an as-applied VOHAP content exceeding the applicable limit given in Table III.T.1 of this Title V permit, as determined by the procedures in Sections III.T.3.e-g of this Title V permit. For the compliance procedures described in Sections III.T.3.e or III.T.3.g of this Title V permit, VOC shall be used as a surrogate for VOHAP and the EPA Reference Method 24 shall be used as the definitive measure for determining compliance. For the compliance procedure described in Section III.T.3.e of this Title V permit, an alternative test method capable of measuring independent VOHAP shall be used to determine compliance. The method must be submitted to and approved by the Administrator.

[40 CFR §63.783(a)]

| <b>Table III.T.1: Limits</b>        |   |                                      |                                 |
|-------------------------------------|---|--------------------------------------|---------------------------------|
| <b>Coating Category<sup>6</sup></b> | <b>VOHAP limits<sup>1,2,3</sup></b>                                   |                                      |                                 |
|                                     | <b>grams/liter coating<br/>(minus water and<br/>exempt compounds)</b> | <b>grams/liter solid<sup>4</sup></b> |                                 |
|                                     |   | <b>T ≥ 4.5°C</b>                     | <b>T &lt; 4.5°C<sup>5</sup></b> |
| General use                         | 340   | 571                                  | 728                             |
| Air flask                           | 340   | 571                                  | 728                             |
| Antenna                             | 530   | 1,439                                | --                              |
| Antifoulant                         | 400   | 765                                  | 971                             |
| Heat resistant                      | 420   | 841                                  | 1,069                           |
| High-gloss                          | 420   | 841                                  | 1,069                           |
| High-temperature                    | 500   | 1,237                                | 1,597                           |
| Inorganic zinc high-build           | 340   | 571                                  | 728                             |
| Military exterior                   | 340   | 571                                  | 728                             |
| Mist                                | 610   | 2,235                                | --                              |
| Navigational aids                   | 550   | 1,597                                | --                              |
| Nonskid                             | 340   | 571                                  | 728                             |
| Nuclear                             | 420   | 841                                  | 1,069                           |
| Organic zinc                        | 360   | 630                                  | 802                             |
| Pretreatment wash primer            | 780   | 11,095                               | --                              |
| Repair and maint. of thermoplastics | 550   | 1,597                                | --                              |
| Rubber camouflage                   | 340   | 571                                  | 728                             |
| Sealant for thermal spray aluminum  | 610   | 2,235                                | --                              |
| Special marking                     | 490   | 1,178                                | --                              |
| Specialty interior                  | 340   | 571                                  | 728                             |
| Tack coat                           | 610   | 2,235                                | --                              |
| Undersea weapons systems            | 340   | 571                                  | 728                             |
| Weld-through precon. Primer         | 650   | 2,885                                | --                              |



## Section III: Applicable Requirements and Compliance Demonstration

Foot notes:

- <sup>1</sup> The limits are expressed in two sets of equivalent units. Either set of limits may be used for the compliance procedure described in Section III.T.3.e of this Title V permit but only the limits expressed in units of g/L solids (nonvolatiles) shall be used for the compliance procedures described in Sections III.T.3.f and III.T.3.g of this Title V permit.
- <sup>2</sup> VOC (including exempt compounds listed as HAP) shall be used as a surrogate for VOHAP for those compliance procedures described in Sections III.T.3.e-g of this Title V permit.
- <sup>3</sup> To convert from g/L to lb/gal, multiply by (3.785 L/gal)(1/453.6 lb/g) or 1/120. For compliance purposes, metric units define the standards.
- <sup>4</sup> VOHAP limits expressed in units of mass of VOHAP per volume of solids were derived from the VOHAP limits expressed in units of mass of VOHAP per volume of coating assuming the coatings contain no water or exempt compounds and that the volumes of all components within a coating are additive.
- <sup>5</sup> These limits apply during cold-weather time periods, as defined in 40 CFR §63.782. Cold-weather allowances are not given to coatings in categories that permit over a 40 percent VOHAP content by volume. Such coatings are subject to the same limits regardless of weather conditions.
- <sup>6</sup> As defined in 40 CFR §63.782

### 2. Operating Requirements

- a. The Permittee of the affected source shall ensure that: [40 CFR §63.783(b)]
  - i. All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills. [40 CFR §63.783(b)(1)]
  - ii. All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them. [40 CFR §63.783(b)(2)]

### 3. Compliance Requirements

- a. For each batch of coating that is received, the Permittee shall: [40 CFR §63.785(a)]
  - i. Determine the coating category and the applicable VOHAP limit as specified in Section III.T.1 of this Title V permit. [40 CFR §63.785(a)(1)]
  - ii. Certify the as-supplied VOC content of the batch of coating. The Permittee may use a certification supplied by the manufacturer for the batch, although the Permittee retains liability should subsequent testing reveal a violation. If the Permittee performs the certification testing, only one of the containers in which the batch of coating was received is required to be tested. [40 CFR §63.785(a)(2)]
- b. In lieu of testing each batch of coating, as applied, the Permittee may determine compliance with the VOHAP limits using any combination of the procedures described in Sections III.T.3.e-g of this Title V permit. The procedure used for each coating shall be determined and documented prior to application. [40 CFR §63.785(b)(1)]
- c. The results of any compliance demonstration conducted by the Permittee, Office of Air Resources or the EPA using Method 24 shall take precedence over the results using the procedures in Sections III.T.3.e-g of this Title V permit. [40 CFR §63.785(b)(2)]
- d. The results of any compliance demonstration conducted by the Permittee, the Office of Air Resources or the EPA using an approved test method to determine VOHAP content shall take precedence over the results using the procedures in Section III.T.3.g of this Title V permit. [40 CFR §63.785(b)(3)]

### Section III: Applicable Requirements and Compliance Demonstration

- e. Coatings to which thinning solvent will not be added.
  - i. For coatings to which thinning solvent (or any other material) will not be added under any circumstance or to which only water is added, the Permittee of an affected source shall comply as follows: [40 CFR §63.785(c)(1)]
    - (A) Certify the as-applied VOC content of each batch of coating. [40 CFR §63.785(c)(1)(i)]
    - (B) Notify the persons responsible for applying the coating that no thinning solvent may be added to the coating by affixing a label to each container of coating in the batch or through another means described in the facility's current NESHAP Implementation Plan. [40 CFR §63.785(c)(1)(ii)]
    - (C) If the certified as-applied VOC content of each batch of coating used during a calendar month is less than or equal to the applicable VOHAP limit in Section III.T.1 (either in terms of g/L of coating or g/L of solids) of this Title V permit, then compliance is demonstrated for that calendar month, unless a violation is revealed using Method 24. [40 CFR §63.785(c)(1)(iii)]

- f. Coatings to which thinning solvent will be added—coating-by coating compliance.
  - i. For a coating to which thinning solvent is routinely or sometimes added, the Permittee shall comply as follows: [40 CFR §63.785(c)(2)]
    - (A) Prior to the first application of each batch, designate a single thinner for the coating and calculate the maximum allowable thinning ratio (or ratios, if the Permittee complies with the cold-weather limits in addition to the other limits specified in Section III.T.1 of this Title V permit) for each batch as follows: [40 CFR §63.785(c)(2)(i)]

$$R = \frac{(V_s)(\text{VOHAP limit}) - m_{\text{VOC}}}{D_{\text{th}}} \quad \text{Eqn. 1}$$

where:

**R** = Maximum allowable thinning ratio for a given batch (L thinner/L coating as supplied);

**V<sub>s</sub>** = Volume fraction of solids in the batch as supplied (L solids/L coating as supplied);

**VOHAP limit** = Maximum allowable as-applied VOHAP content of the coating (g VOHAP/L solids);

**m<sub>VOC</sub>** = VOC content of the batch as supplied [g VOC (including cure volatiles and exempt compounds on the HAP list)/L coating (including water and exempt compounds) as supplied]; and

**D<sub>th</sub>** = Density of the thinner (g/L).

If V<sub>s</sub> is not supplied directly by the coating manufacturer, the Permittee shall determine V<sub>s</sub> as follows:

$$V_s = 1 - \frac{m_{\text{volatiles}}}{D_{\text{avg}}} \quad \text{Eqn. 2}$$

where:

### Section III: Applicable Requirements and Compliance Demonstration

$m_{\text{volatiles}}$ =Total volatiles in the batch, including VOC, water, and exempt compounds (g/L coating); and

$D_{\text{avg}}$ =Average density of volatiles in the batch (g/L)

The procedures specified in Section III.T.4.d of this Title V permit may be used to determine the values of variables defined in this paragraph. In addition, the Permittee may choose to construct nomographs, based on Equation 1, similar or identical to the one provided in Appendix B of 40 CFR Part 63 Subpart II as a means of easily estimating the maximum allowable thinning ratio.

- (B) Prior to the first application of each batch, notify painters and other persons, as necessary, of the designated thinner and maximum allowable thinning ratio(s) for each batch of the coating by affixing a label to each container of coating or through another means described in the facility's current NESHAP Implementation Plan. [40 CFR §63.785(c)(2)(ii)]
- (C) By the 15th day of each calendar month, determine the volume of each batch of the coating used, as supplied, during the previous month. [40 CFR §63.785(c)(2)(iii)]
- (D) By the 15th day of each calendar month, determine the total allowable volume of thinner for the coating used during the previous month as follows: [40 CFR §63.785(c)(2)(iv)]

$$V_{th} = \sum_{i=1}^n (R \times V_b)_i + \sum_{i=1}^n (R_{cold} \times V_{b-cold})_i \quad \text{Eqn. 3}$$

where:

$V_{th}$ = Total allowable volume of thinner for the previous month (L thinner);

$R$ = Maximum allowable thinning ratio for a given batch (L thinner/L coating as supplied);

$V_b$ = Volume of each batch, as supplied and before being thinned, used during non-cold-weather days of the previous month (L coating as supplied);

$R_{cold}$ = Maximum allowable thinning ratio for each batch used during cold-weather days (L thinner/L coating as supplied);

$V_{b-cold}$ = Volume of each batch, as supplied and before being thinned, used during cold-weather days of the previous month (L coating as supplied);

$i$ = Each batch of coating; and

$n$ = Total number of batches of the coating.

- (E) By the 15th day of each calendar month, determine the volume of thinner actually used with the coating during the previous month. [40 CFR §63.785(c)(2)(v)]
- (F) If the volume of thinner actually used with the coating [Section III.T.3.f.i.E of this Title V permit] is less than or equal to the total allowable volume of thinner for the coating [Section III.T.3.f.i.D of this Title V permit], then compliance is demonstrated for the coating for the previous month, unless a violation is revealed using Method 24. [40 CFR §63.785(c)(2)(vi)]

g. Demonstration of compliance through an alternative (i.e., other than Method 24 of Appendix A to 40

### **Section III: Applicable Requirements and Compliance Demonstration**

CFR Part 60) test method.

The Permittee shall comply as follows:

- i. Certify the as-supplied VOHAP content (g VOHAP/L solids) of each batch of coating. [40 CFR §63.785(c)(4)(i)]
- ii. If no thinning solvent will be added to the coating, the Permittee shall follow the procedure described in Section III.T.3.e, except that VOHAP content shall be used in lieu of VOC content. [40 CFR §63.785(c)(4)(ii)]
- iii. If thinning solvent will be added to the coating, Permittee shall follow the procedure described in Section III.T.3.f of this Title V permit, except that in Equation 1 the term “Mvoc” shall be replaced by the term “MVOHAP” defined as the VOHAP content of the coating as supplied (g VOHAP/L coating) and the term “Dth” shall be replaced by the term “Dth(VOHAP)” defined as the average density of the VOHAP thinner(s) (g/L). [40 CFR §63.785(c)(4)(iii)]
- h. A violation revealed through any approved test method shall result in a 1-day violation for enforcement purposes. A violation revealed through the recordkeeping procedures described in Sections III.T.3.e-g of this Title V permit shall result in a 30-day violation for enforcement purposes, unless the Permittee provides sufficient data to demonstrate the specific days during which noncompliant coatings were applied. [40 CFR §63.785(d)]

#### **4. Testing Requirements**

- a. For the compliance procedures described in Sections III.T.3.e-g of this Title V permit, Method 24 of 40 CFR Part 60, Appendix A, is the definitive method for determining the VOC content of coatings, as supplied or as applied. When a coating or thinner contains exempt compounds that are volatile HAP or VOHAP, the Permittee shall ensure, when determining the VOC content of a coating, that the mass of these exempt compounds is included. [40 CFR §63.786(a)]
- b. For the compliance procedure described in Section III.T.3.g of this Title V permit, the EPA must approve the test method for determining VOHAP content of coatings and thinners. The criteria for approval of the test method are specified in 40 CFR §63.786(b). [40 CFR §63.786(b)]
- c. A coating manufacturer or the Permittee may use batch formulation data as a test method in lieu of Method 24 to certify the as-supplied VOC content of a coating if the manufacturer or the Permittee has determined that batch formulation data have a consistent and quantitatively known relationship to Method 24 results. This determination shall consider the role of cure volatiles, which may cause emissions to exceed an amount based solely upon coating formulation data. Notwithstanding such determination, in the event of conflicting results, Method 24 shall take precedence. [40 CFR §63.786(c)]
- d. The Permittee shall use or ensure that the manufacturer uses the form and procedures mentioned in 40 CFR Part 63 Subpart II, Appendix A to determine values for the thinner and coating parameters used in Equations 1 and 2 of this Title V permit. The Permittee shall ensure that the coating/thinner manufacturer (or supplier) provides information on the VOC and VOHAP contents of the coatings/thinners and the procedure(s) used to determine these values. [40 CFR §63.786(d)]

#### **5. Record Keeping Requirements**

- a. The Permittee shall compile records on a monthly basis and maintain those records for a minimum of five years. At a minimum, these records shall include: [40 CFR §63.788(b)(2)]
  - i. A copy of the affected source's approved implementation plan; [40 CFR §63.788(b)(2)(ii)]
  - ii. The volume of each low-usage-exempt coating applied; [40 CFR §63.788(b)(2)(iii)]
  - iii. Identification of the coatings used, their appropriate coating categories, and the applicable VOHAP

### **Section III: Applicable Requirements and Compliance Demonstration**

limit; [40 CFR §63.788(b)(2)(iv)]

- iv. Certification of the as-supplied VOC content of each batch of coating; [40 CFR §63.788(b)(2)(v)]
- v. A determination of whether containers meet the standards as described in Section III.T.2.a.ii of this Title V permit; and [40 CFR §63.788(b)(2)(vi)]
- vi. The results of any Method 24 of Appendix A to 40 CFR Part 60 or approved VOHAP measurement test conducted on individual containers of coating, as applied. [40 CFR §63.788(b)(2)(vii)]

- b. The records required by Section III.T.5.a of this Title V permit shall include additional information, as determined by the compliance procedure(s) described in Sections III.T.3.e-g of this Title V permit, that the Permittee followed. [40 CFR §63.788(b)(3)]

- i. Coatings to which thinning solvent will not be added.

The records maintained by the Permittee demonstrating compliance using the procedure specified in Section III.T.3.e of this Title V permit shall contain the following information:

[40 CFR §63.788(b)(3)(i)]

- (A) Certification of the as-applied VOC content of each batch of coating; and

[40 CFR §63.788(b)(3)(i)(A)]

- (B) The volume of each coating applied. [40 CFR §63.788(b)(3)(i)(B)]

- ii. Coatings to which thinning solvent will be added--coating-by-coating compliance.

The records maintained by the Permittee demonstrating compliance using the procedure specified in Section III.T.3.f of this Title V permit shall contain the following information:

[40 CFR §63.788(b)(3)(ii)]

- (A) The density and mass fraction of water and exempt compounds of each thinner and the volume fraction of solids (nonvolatiles) in each batch, including any calculations;

[40 CFR §63.788(b)(3)(ii)(A)]

- (B) The maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Section III.T.1.a of this Title V permit) for each batch of coating, including calculations; [40 CFR §63.788(b)(3)(ii)(B)]

- (C) If the Permittee chooses to comply with the cold-weather limits, the dates and times during which the ambient temperature at the affected source was below 4.5°C (40°F) at the time the coating was applied and the volume used of each batch of the coating, as supplied, during these dates; [40 CFR §63.788(b)(3)(ii)(C)]

- (D) The volume used of each batch of the coating, as supplied; [40 CFR §63.788(b)(3)(ii)(D)]

- (E) The total allowable volume of thinner for each coating, including calculations; and

[40 CFR §63.788(b)(3)(ii)(E)]

- (F) The actual volume of thinner used for each coating. [40 CFR §63.788(b)(3)(ii)(F)]

- iii. Demonstration of compliance through an alternative (i.e., non-Method 24 in Appendix A to 40 CFR Part 60) test method.

The records maintained by the Permittee demonstrating compliance using the procedure described in Section III.T.3.g of this Title V permit, shall contain the following information:

- (A) Identification of the Administrator-approved VOHAP test method or certification procedure;

[40 CFR §63.788(b)(3)(iv)(A)]

### **Section III: Applicable Requirements and Compliance Demonstration**

- (B) For coatings to which the Permittee does not add thinning solvents, the source shall record the certification of the as-supplied and as-applied VOHAP content of each batch and the volume of each coating applied; [40 CFR 63,788(b)(3)(iv)(B)]
- (C) For coatings to which the Permittee adds thinning solvents on a coating-by-coating basis, the source shall record all of the information required to be recorded by Section III.T.5.b.ii of this Title V permit. [40 CFR §63.788(b)(3)(iv)(C)]
- c. If the Permittee detects a violation of the emission limitations specified in Section III.T.1.a of this Title V permit, the Permittee shall for the remainder of the reporting period during which the violation(s) occurred, include the following information in his or her records: [40 CFR §63.788(b)(4)]
  - i. A summary of the number and duration of deviations during the reporting period, classified by reason, including known causes for which a Federally-approved or promulgated exemption from an emission limitation or standard may apply. [40 CFR §63.788(b)(4)(i)]
  - ii. Identification of the data availability achieved during the reporting period, including a summary of the number and total duration of incidents that the monitoring protocol failed to perform in accordance with the design of the protocol or produced data that did not meet minimum data accuracy and precision requirements, classified by reason. [40 CFR §63.788(b)(4)(ii)]
  - iii. Identification of the compliance status as of the last day of the reporting period and whether compliance was continuous or intermittent during the reporting period. [40 CFR §63.788(b)(4)(iii)]
  - iv. If, pursuant to Section III.T.5.c.iii of this Title V permit, the Permittee identifies any deviation as resulting from a known cause for which no Federally-approved or promulgated exemption from an emission limitation or standard applies, the monitoring report shall also include all records that the source is required to maintain that pertain to the periods during which such deviation occurred and: [40 CFR §63.788(b)(4)(iv)]
    - (A) The magnitude of each deviation; [40 CFR §63.788(b)(4)(iv)(A)]
    - (B) The reason for each deviation; [40 CFR §63.788(b)(4)(iv)(B)]
    - (C) A description of the corrective action taken for each deviation, including action taken to minimize each deviation and action taken to prevent recurrence; and [40 CFR §63.788(b)(4)(iv)(C)]
    - (D) All quality assurance activities performed on any element of the monitoring protocol. [40 CFR §63.788(b)(4)(iv)(D)]

#### **6. Reporting Requirements**

- a. Before the 60th day following completion of each 6-month period after December 16, 1997, the Permittee shall submit a report to the Office of Air Resources and the EPA for each of the previous six months. The report shall include all of the information that must be retained pursuant to Sections III.T.5.a-b of this Title V permit, except for that information specified in Sections III.T.5.a.i, III.T.5.a.iv, III.T.5.b.i.A and III.T.5.b.ii.A of this Title V permit. If a violation at the facility is detected, the Permittee shall also report the information specified in Section III.T.5.c of this Title V permit for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the Permittee. [40 CFR §63.788(c)]
- b. The Permittee may apply to the EPA for permission to use an alternative means (such as an add-on control system) of limiting emissions from coating operations by following the provisions of 40 CFR §63.783(c). [40 CFR §63.783(c)]

## Section III: Applicable Requirements and Compliance Demonstration

### 7. Other Requirements

- a. The provisions of this section do not apply to coatings used in volumes less than 200 liters (52.8 gallons) per year, provided the total volume of coating exempt under this condition does not exceed 1,000 liters per year (264 gallons per year) at this facility. Coatings exempt under this condition shall be clearly labeled as “low-usage exempt” and the volume of such coating applied shall be maintained in the Permittee’s records. [40 CFR §63.781(b)]
- b. The provisions of this section do not apply to coatings applied with hand-held, non refillable, aerosol containers or to unsaturated polyester resin (i.e. fiberglass lay-up) coatings. Coatings applied to suitably prepared fiberglass surfaces for protective or decorative purposes are subject to this section. [40 CFR §63.781(c)]
- c. Comply with all applicable provisions in 40 CFR §63.1-15, Subpart A, “General Provisions” as indicated in Table 1 of 40 CFR §63.780.

### U. PREMISES-WIDE GENERAL REQUIREMENTS

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
2. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
3. **Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
4. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
5. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
6. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
7. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
8. **Variations:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
9. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
10. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
11. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
12. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.

### Section III: Applicable Requirements and Compliance Demonstration

13. **Fuel Sulfur Content:** The Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21(a)(2)(B).
14. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §§22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.
15. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
16. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §§22a-174-22e, as applicable.
17. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
18. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
19. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
20. **Asbestos NESHAP:** The Permittee shall make notifications for applicable demolition or renovation activities as specified in 40 CFR Part 61 Subpart M.
21. **Shipbuilding and Ship Repair (Surface Coating) NESHAP:** The Permittee shall comply with the National Emission Standards for Hazardous Air Pollutants for Shipbuilding and Ship Repair (Surface Coating) as specified in 40 CFR Part 63 Subpart II.
22. **Radionuclide Emissions:** The Permittee shall comply with the National Emissions Standards for Radionuclides Emissions as specified in 40 CFR Part 61 Subpart I.
23. **Protection of Stratospheric Ozone:** The Permittee shall comply with the standards for recycling and emissions reduction of products using ozone depleting substances pursuant to 40 CFR Part 82 Subpart F.



### Section III: Applicable Requirements and Compliance Demonstration

#### V. COMPLIANCE ASSURANCE MONITORING (CAM) PLAN

##### EU- 25, 27, 29: Abrasive blasting EUs with baghouse control units

| TABLE III.V: COMPLIANCE ASSURANCE MONITORING (CAM) PLAN                    |  |
|--|--|
| Control Devices  | Baghouses  |
| Pollutant  | PM   |
| Indicator #1   | Pressure drop across filter bags   |
| Indicator #2   | If necessary, an indication of visible emissions as determined by EPA Reference Method procedures or equivalent  |
| Justification #1   | A pressure drop across the filters bags less than the indicator value could signal filter bag failure  |
| Justification #2   | Visual inspection criteria provided in EPA's "Frequently Asked Questions Concerning CAM Rule", Rev 10/04   |
| Measurement Approach   | Measure the pressure drop across the filters bags using a differential pressure gauge  |
| Indicator Range:<br>EU-25<br>Portable Units<br>APS DC45E<br>EU-27<br>EU-29 | < 0.2 in. of H <sub>2</sub> O or > 7.2 in. of H <sub>2</sub> O<br>< 4.0 in. of H <sub>2</sub> O<br>< 0.25 in. of H <sub>2</sub> O<br>< 3 in. of H <sub>2</sub> O   |
| Corrective Action  | When there is an excursion, the Permittee shall: <ol style="list-style-type: none"> <li>1. Make a record of the event,</li> <li>2. Inspect the control device, which can include verification using Indicator #2,</li> <li>3. Take corrective action, and</li> <li>4. Take preventative action, as appropriate.</li> </ol> |
| Data Representativeness  | Pressure taps are located at the baghouse inlet and outlet. Differential pressure gauges accurate to $\pm 2\%$ of full scale   |
| Monitoring Frequency, Indicator #1   | Once per operational day of blasting   |
| Monitoring Frequency, Indicator #2   | As necessary upon inspection of device after Indicator #1 excursion  |
| Averaging Periods  | n/a  |
| QA/QC Practices  | The baghouses and filters will be maintained in accordance with the manufacturer's specifications and written recommendations.   |
| Record Keeping   | The Permittee shall maintain for a period of five years records of inspections and corrective actions taken in response to excursions.   |
| Reporting  | The Permittee shall, as part of the semi-annual monitoring report and /or annual compliance certification, submit a report semiannually on the number, duration, cause of any excursion and the corrective action taken.   |

## Section IV: Compliance Schedule

**TABLE IV: COMPLIANCE SCHEDULE**

| <b>Emissions Unit</b> | <b>Applicable Regulations</b> | <b>Steps Required for Achieving Compliance (Milestones)</b> | <b>Date by which Each Step is to be Completed</b> | <b>Dates for Monitoring, Record Keeping, and Reporting</b> |
|-----------------------|-------------------------------|---|---|--|
|                       |                               | No Steps are required for achieving compliance at this time |   |  |

## Section V. State Enforceable Perms and Conditions

Only the Commissioner of the Department of Energy and Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

### State Enforceable Terms and Conditions

- A. This Title V permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Energy and Environmental Protection or any federal, local or other state agency. Nothing in this Title V permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- B. Nothing in this Title V permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the commissioner.
- C. Additional Emissions Units
  - 1. The Permittee shall make and submit a written record, at the commissioner's request, within 30 days of receipt of notice from the commissioner, or by such other date specified by the commissioner, of each additional emissions unit or group of similar or identical emissions units at the premises.
  - 2. Such record of additional emissions units shall include each emissions unit, or group of emissions units, at the premises which is not listed in Section II.A of this Title V permit, unless the emissions unit, or group of emissions units, is:
    - a. An insignificant emissions unit as defined in RCSA §22a-174-33; or
    - b. An emissions unit or activity listed in *White Paper for Streamlined Development of Part 70 Permit Applications, Attachment A* (EPA guidance memorandum dated July 10, 1995).
  - 3. For each emissions unit, or group of emissions units, on such record, the record shall include, as available:
    - a. Description, including make and model;
    - b. Year of construction/installation or if a group, range of years of construction/installation;
    - c. Maximum throughput or capacity; and
    - d. Fuel type, if applicable.
- D. Odors: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor that constitutes a nuisance beyond the property boundary of the premises as set forth in RCSA §22a-174-23.
- E. Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.
- F. Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.

## Section VI. Title V Requirements

The Administrator of the United States Environmental Protection Agency and the Commissioner of the Department of Energy and Environmental Protection have the authority to enforce the terms and conditions contained in this section.

### A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the commissioner of any document required by this Title V permit shall be the date such document is received by the commissioner. The date of any notice by the commissioner under this Title V permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the commissioner, whichever is earlier. Except as otherwise specified in this Title V permit, the word "day" means calendar day. Any document or action which is required by this Title V permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the commissioner under this Title V permit shall, unless otherwise specified in writing by the commissioner, be directed to: Office of the Director; Engineering & Enforcement Division; Bureau of Air Management; Department of Energy and Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; EPA Region 1; 5 Post Office Square, Suite 100; Mail Code OEP05-02; Boston, Massachusetts 02109-3912.

### B. CERTIFICATIONS [RCSA §22a-174-33(b)]

In accordance with RCSA §22a-174-33(b), any report or other document required by this Title V permit and any other information submitted to the commissioner or Administrator shall be signed by an individual described in RCSA §22a-174-2a(a), or by a duly authorized representative of such individual. Any individual signing any document pursuant to RCSA §22a-174-33(b) shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in RCSA §22a-174-2a(a)(4):

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute."

### C. SIGNATORY RESPONSIBILITY [RCSA §22a-174-2a(a)]

For purposes of signing any Title V-related application, document, report or certification required by RCSA §22a-174-33, any corporation's duly authorized representative may be either a named individual or any individual occupying a named position. Such named individual or individual occupying a named position is a duly authorized representative if such individual is responsible for the overall operation of one or more manufacturing, production or operating facilities subject to RCSA §22a-174-33 and either:

1. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding 25 million dollars in second quarter 1980 dollars; or
2. The delegation of authority to the duly authorized representative has been given in writing by an officer of

## Section VI. Title V Requirements

the corporation in accordance with corporate procedures and the following:

- i. Such written authorization specifically authorizes a named individual, or a named position, having responsibility for the overall operation of the Title V premises or activity,
- ii. Such written authorization is submitted to the commissioner and has been approved by the commissioner in advance of such delegation. Such approval does not constitute approval of corporate procedures, and
- iii. If a duly authorized representative is a named individual in an authorization submitted under subclause ii. of this subparagraph and a different individual is assigned or has assumed the responsibilities of the duly authorized representative, or, if a duly authorized representative is a named position in an authorization submitted under subclause ii. of this subparagraph and a different named position is assigned or has assumed the duties of the duly authorized representative, a new written authorization shall be submitted to the commissioner prior to or together with the submission of any application, document, report or certification signed by such representative.

### **D. ADDITIONAL INFORMATION [RCSA §22a-174-33(j)(1)(X), RCSA §22a-174-33(h)(2)]**

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending this Title V permit or to determine compliance with this Title V permit.

In addition, the Permittee shall submit information to address any requirements that become applicable to the subject source and shall submit correct, complete, and sufficient information within 15 days of the applicant's becoming aware of any incorrect, incomplete, or insufficient submittal, during the pendency of the application, or any time thereafter, with an explanation for such deficiency and a certification pursuant to RCSA §22a-174-2a(a)(5).

### **E. MONITORING REPORTS [RCSA §22a-174-33(o)(1)]**

A Permittee, required to perform monitoring pursuant this Title V permit, shall submit to the commissioner, on forms prescribed by the commissioner, written monitoring reports on March 1 and September 1 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this Title V permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

### **F. PREMISES RECORDS [RCSA §22a-174-33(o)(2)]**

Unless otherwise required by this Title V permit, the Permittee shall make and keep records of all required monitoring data and supporting information for at least five years from the date such data and information were obtained. The Permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;

## Section VI. Title V Requirements

5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;
7. The results of such analyses;
8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

### **G. PROGRESS REPORTS [RCSA §22a-174-33(q)(1)]**

The Permittee shall, on March 1 and September 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a progress report on forms prescribed by the commissioner, and certified in accordance with RCSA §22a-174-2a(a)(5). Such report shall describe the Permittee's progress in achieving compliance under the compliance plan schedule contained in this Title V permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the Permittee expects to meet them.

Any progress report prepared and submitted pursuant to RCSA §22a-174-33(q)(1) shall be simultaneously submitted by the Permittee to the Administrator.

### **H. COMPLIANCE CERTIFICATIONS [RCSA §22a-174-33(q)(2)]**

The Permittee shall, on March 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a written compliance certification certified in accordance with RCSA §22a-174-2a(a)(5) and which includes the information identified in 40 CFR §§70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to RCSA §22a-174-33(q)(2) shall be simultaneously submitted by the Permittee to the Administrator.

### **I. PERMIT DEVIATION NOTIFICATIONS [RCSA §22a-174-33(p)]**

Notwithstanding Section VI.D of this Title V permit, the Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than 24 hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten days after such deviation commenced.

### **J. PERMIT RENEWAL [RCSA §22a-174-33(j)(1)(B)]**

All of the terms and conditions of this Title V permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with RCSA §§22a-174-33(g), -33(h), and -33(i).

### **K. OPERATE IN COMPLIANCE [RCSA §22a-174-33(j)(1)(C)]**

The Permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this Title V permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a

## Section VI. Title V Requirements

permit renewal application.

### **L. COMPLIANCE WITH PERMIT [RCSA §22a-174-33(j)(1)(G)]**

This Title V permit shall not be deemed to:

1. Preclude the creation or use of emission reduction credits or allowances or the trading thereof in accordance with RCSA §§22a-174-33(j)(1)(I) and -33(j)(1)(P), provided that the commissioner's prior written approval of the creation, use, or trading is obtained;
2. Authorize emissions of an air pollutant so as to exceed levels prohibited pursuant to 40 CFR Part 72;
3. Authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. Impose limits on emissions from items or activities specified in RCSA §§22a-174-33(g)(3)(A) and -33(g)(3)(B) unless imposition of such limits is required by an applicable requirement.

### **M. INSPECTION TO DETERMINE COMPLIANCE [RCSA §22a-174-33(j)(1)(M)]**

The commissioner may, for the purpose of determining compliance with this Title V permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under such permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this Title V permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

### **N. PERMIT AVAILABILITY**

The Permittee shall have available at the facility at all times a copy of this Title V permit.

### **O. SEVERABILITY CLAUSE [RCSA §22a-174-33(j)(1)(R)]**

The provisions of this Title V permit are severable. If any provision of this Title V permit or the application of any provision of this Title V permit to any circumstance is held invalid, the remainder of this Title V permit and the application of such provision to other circumstances shall not be affected.

### **P. NEED TO HALT OR REDUCE ACTIVITY [RCSA §22a-174-33(j)(1)(T)]**

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Title V permit.

### **Q. PERMIT REQUIREMENTS [RCSA §22a-174-33(j)(1)(V)]**

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the Permittee's obligation to comply with this Title V permit.

### **R. PROPERTY RIGHTS [RCSA §22a-174-33(j)(1)(W)]**

This Title V permit does not convey any property rights or any exclusive privileges. This Title V permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including CGS §4-181a(b) and RCSA §22a-3a-5(b). This Title V permit shall neither create nor affect any rights of persons who are not parties to this Title V permit.

### **S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA §22a-174-33(o)(3)]**

The Permittee shall, contemporaneously with making a change authorized by this Title V permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

## Section VI. Title V Requirements

### **T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA §22a-174-33(r)(2)]**

The Permittee may engage in any action allowed by the Administrator in accordance with 40 CFR §§70.4(b)(12)(i) to (iii)(B), inclusive, and 40 CFR §§70.4(b)(14)(i) to (iv), inclusive, without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. Constitute a modification under 40 CFR Part 60, 61 or 63;
2. Exceed emissions allowable under the subject permit;
3. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40 CFR Parts 72 to 78, inclusive; or
4. Constitute a non-minor permit modification pursuant to RCSA §22a-174-2a(d)(4).

At least seven days before initiating an action specified in RCSA §22a-174-33(r)(2)(A), the Permittee shall notify the Administrator and the commissioner in writing of such intended action.

### **U. INFORMATION FOR NOTIFICATION [RCSA §22a-174-33(r)(2)(A)]**

Written notification required under RCSA §22a-174-33(r)(2)(A) shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The Permittee shall thereafter maintain a copy of such notice with the Title V permit. The commissioner and the Permittee shall each attach a copy of such notice to their copy of the Title V permit.

### **V. TRANSFERS [RCSA §22a-174-2a(g)]**

No person other than the Permittee shall act or refrain from acting under the authority of this Title V permit unless such permit has been transferred to another person in accordance with RCSA §22a-174-2a(g).

The proposed transferor and transferee of a permit shall submit to the commissioner a request for a permit transfer on a form provided by the commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS §22a-6m.

### **W. REVOCATION [RCSA §22a-174-2a(h)]**

The commissioner may revoke this Title V permit on his own initiative or on the request of the Permittee or any other person, in accordance with CGS §4-182(c), RCSA §22a-3a-5(d), and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The Permittee requesting revocation of this Title V permit shall state the requested date of revocation and provide evidence satisfactory to the commissioner that the subject source is no longer a Title V source.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this Title V permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this Title V permit if the Administrator has determined that the commissioner failed to act in a timely manner on a permit renewal application.

This Title V permit may be modified, revoked, reopened, reissued, or suspended by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(r), CGS §22a-174c, or RCSA §22a-3a-5(d).



## **Section VI. Title V Requirements**

### **X. REOPENING FOR CAUSE [RCSA §22a-174-33(s)]**

This Title V permit may be reopened by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(s).

### **Y. CREDIBLE EVIDENCE**

Notwithstanding any other provision of this Title V permit, for the purpose of determining compliance or establishing whether a Permittee has violated or is in violation of any permit condition, nothing in this Title V permit shall preclude the use, including the exclusive use, of any credible evidence or information.

## **Print for Compliance Certification or Enforcement**

### **Print for Compliance Certification or Enforcement**

Click the button below to generate the appropriate checklist. Be aware that this macro does not work unless you have access to the DEEP D-Drive.

This macro takes anywhere from 2-5 minutes to run. Your computer will look like it is locked up but it is working. Unfortunately the new DEEP virtual computer system makes this process even slower. Please be patient.

Print Enforcement Checklist

Print Compliance Certification