

GOVERNMENT OF THE DISTRICT OF COLUMBIA  
Department of Energy and Environment

October 9, 2015

Rear Admiral Christopher E. Weaver, USN, Retired, Acting Director  
District of Columbia Department of General Services  
2000 14<sup>th</sup> Street NW – Reeves Center  
Washington, DC 20009

Subject: **Draft Title V Operating Permit (Permit No. 022-R2)**

Dear Admiral Weaver:

The Air Quality Division (AQD) of the Department of Energy and Environment (the Department) has prepared a Draft Title V operating permit pursuant to Chapters 2 and 3 of Title 20 of the District of Columbia Municipal Regulations (20 DCMR 200 and 300). This permit, satisfying applicable regulations, is enclosed. Note that this permit when issued, will be issued pursuant to the Department's authority under both Chapter 2 and Chapter 3 as mentioned above.

As the responsible official for the equipment covered by this permit at District of Columbia Department of General Services, it will be your responsibility to review, understand, and abide by all of the terms and conditions of the attached and to ensure that any person who operates any emission unit subject to the attached permit does the same.

The draft permit will be subject to a 30-day public comment period, beginning October 9, 2015. The District of Columbia Department of General Services, affected states (Maryland, Virginia, and West Virginia), the U.S. Environmental Protection Agency (EPA), and the general public may comment on the draft permit during this review period. Upon closing of this review period the permit may be modified to address comments received during this period.

If no significant comments are received during the public review period of the draft permit, the permit will continue with an EPA review period of up to an additional 15 days for final EPA review. Otherwise, all comments will be addressed and the permit will then be issued as a proposed permit for EPA review only for a period of up to 45 days.

If EPA does not object to the issuance of the permit during this additional 15 day period or the alternative 45 day proposed permit review period, the permit will be issued as a final permit and will become fully enforceable. If EPA raises objections during this period, the objections will be addressed as necessary by issuance of a modified draft permit.

**District of Columbia Department of General Services**  
**Transmittal of Draft Title V Operating Permit No. 022-R2**

October 9, 2015

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If you have questions or comments or need further information, please write to this office or contact John C. Nwoke at (202) 724-7778 or [john.nwoke@dc.gov](mailto:john.nwoke@dc.gov) or me at (202) 535-1747 or [stephen.ours@dc.gov](mailto:stephen.ours@dc.gov).

Sincerely,



Stephen S. Ours, P.E.  
Chief, Permitting Branch

Attachment: 1

SSO:JCN

cc: Ricardo Eley, Safety and Health Manager, DGS <via email>  
Brian Killian, Safety and Health Supervisor, DGS <via email>  
Kathleen Walsh, Environmental Protection Specialist, DGS <via email>  
Carl Kohlmeyer, Global Consulting Inc. <via email>

04969

**District of Columbia  
Air Quality Operating Permit**

**District of Columbia Department of General Services  
DC General Health Campus and DC Jail  
1900 Massachusetts Avenue SE  
Washington, DC 20003**

**Draft Title V Operating Permit  
Chapter 3 Permit No. 022-R2**

**ICIS-Air Facility ID: DC0000001100100008**

**Department of Energy and Environment  
Air Quality Division**

Effective Date: <insert date> , 2015      Expiration Date: <insert date> , 2020

GOVERNMENT OF THE DISTRICT OF COLUMBIA  
Department of Energy and Environment

Chapter 3 Permit No. 022-R2

ICIS-Air Facility ID: DC0000001100100008

Effective Date: <Insert Date>, 2015

Expiration Date: <Insert Date>, 2020

Pursuant to the requirements of Chapter 2, General and Non-Attainment Permits, and Chapter 3, Operating Permits, of Title 20 of the District of Columbia Municipal Regulation (20 DCMR), the District of Columbia Department of Energy and Environment, Air Quality Division hereafter referred to as "the District" or "the Department" as the duly delegated agency, hereby grants approval to operate the emission units listed in Sections III and IV of this permit subject to the terms and conditions of this permit. All terms and conditions of this permit are enforceable by the District and by the U.S. Environmental Protection Agency (EPA) unless specifically designated as enforceable by the District only, as annotated by "\*".

SUBJECT TO THE TERMS AND CONDITIONS OF THIS PERMIT, approval to operate is granted to:

**Permittee**

**Facility Location**

DC Department of General Services  
2000 14<sup>th</sup> Street NW – Reeves Center  
Washington, DC 20009

DC General Health Campus and DC Jail  
1900 Massachusetts Avenue SE  
Washington, DC 20003

**Responsible Official:** Rear Admiral Christopher E. Weaver, USN, Retired  
Acting Director, Department of General Services

PREPARED BY:

\_\_\_\_\_  
John C. Nwoke  
Environmental Engineer  
Air Quality Division

\_\_\_\_\_  
Date

AUTHORIZED BY:

\_\_\_\_\_  
Stephen S. Ours, P.E.  
Chief, Permitting Branch  
Air Quality Division

\_\_\_\_\_  
Date

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## I. General Permit Requirements

### a. Compliance

1. The Permittee shall comply with all the terms and conditions of this permit. Any non-compliance with this permit constitutes a violation of the federal Clean Air Act and/or District regulations and is grounds for enforcement action, permit revocation, permit modification or denial of permit renewal. [20 DCMR 302.1(g)(1)]
2. In any enforcement action, the Permittee cannot claim as a defense that it would have been necessary to halt or reduce a permitted activity in order to maintain compliance with this permit. [20 DCMR 302.1(g)(2)]
3. To demonstrate compliance, the Permittee must submit an Annual Certification Report to the Department not later than March 1 each year certifying compliance with all permit conditions. See Section I(d)(2) of this permit. [20 DCMR 302.3(e)(1)]
4. Nothing in this permit shall be interpreted to preclude the use of any credible evidence to demonstrate compliance or non-compliance with any term or condition of this permit. [40 CFR 51.212, 52.12, 52.30, 60.11, and 61.12]
5. In the event of an emergency, as defined by 20 DCMR 399.1, noncompliance with the limits contained in this permit shall be subject to the following provisions [20 DCMR 302.7]:
  - A. An emergency constitutes an affirmative defense to an action brought for noncompliance with the technology-based emission limitations of this permit if the conditions of Condition I(a)(5)(B) are met.
  - B. The affirmative defense of an emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
    - i. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;
    - ii. The permitted stationary source was at the time being properly operated;
    - iii. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of this permit; and
    - iv. The Permittee submitted notice of the emergency to the Department within two (2) working days of the time when emission limitations were exceeded

due to the emergency. The notice shall contain description of the emergency, any steps taken to mitigate emissions, and corrective actions taken pursuant to 20 DCMR 302.1(c)(3)(C)(i).

- C. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof; and
  - D. This provision is in addition to any emergency or upset provision contained in any applicable requirement.
6. In addition to any specific testing requirements specified elsewhere in this permit, the Department reserves the right to require that the owner or operator perform additional emission tests using methods approved in advance by the Department. [20 DCMR 502.1]

b. Permit Availability

A copy of this permit shall be available at the permitted facility at all times. A copy of this permit shall be provided to the Department upon request. [20 DCMR 101.1]

c. Record Keeping

- 1. Where applicable to the monitoring, reporting, or testing requirements of this permit, the Permittee shall keep the following records [20 DCMR 302.1(c)(2)(A)(i-vi):
  - A. The date, place as defined in the permit, and time of sampling or measurements;
  - B. The date(s) analyses were performed;
  - C. The company or entity that performed the analyses;
  - D. The analytical techniques or methods used;
  - E. The results of the analyses; and
  - F. The operating conditions, as existing at the time of sampling or measurement.
- 2. The Permittee must keep and maintain records of all testing results, monitoring information, records, reports, and applications required by this permit for a period of at least five (5) years from the date of such test, monitoring, sample measurement, report or application. [20 DCMR 302.1(c)(2)(B)]
- 3. The Permittee must keep and maintain, in a permanently bound log book or another

format approved in writing by the Department, records of all combustion process adjustments. Such records shall include the following [20 DCMR 805.8(c)]:

- A. The date on which the combustion process was last adjusted;
  - B. The name, title, affiliation of the person who made the adjustment;
  - C. The NO<sub>x</sub> emission rate, in parts per million by volume, dry basis (ppmvd), after the adjustments were made;
  - D. The CO emission rate, in ppmvd, after the adjustments were made;
  - E. The CO<sub>2</sub> concentration, in percent (%) by volume dry basis, after the adjustments were made;
  - F. The O<sub>2</sub> concentration, in percent (%) by volume dry basis, after the adjustments were made; and
  - G. Any other information which the Department may require.
4. Unless more specific requirements are included in Condition III or Condition IV of this permit for a specific operation, for surface painting operations, printing operations, and photograph processing operations, etc., as applicable, the Permittee shall maintain the following records [20 DCMR 500.1]:
- A. The names of the chemical compounds contained in the solvents, reagents, coatings, and other substances used in these activities;
  - B. The volatile organic compound (VOC) content, measured in weight percent, of solvents used in these activities,
  - C. The quantity of solvents (not including those that are subject to Condition II(m) of this permit) used in pounds per hour, and
  - D. The number of hours that solvents were applied each day (exclusive of uses subject to Condition II(m) of this permit).
5. If Section 502(b)(10) changes are made pursuant to Condition I(k) of this permit, the Permittee shall maintain a copy of the notice with the permit. [20 DCMR 302.8(a)]
6. If off-permit changes are made pursuant to Condition I(l) of this permit, the Permittee shall keep a record of all such changes that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the

permit, and the emissions resulting from those changes. [20 DCMR 302.9(d)]

d. Reporting Requirements

1. Semi-Annual Report: The Permittee shall submit semi-annual reports to the Department by March 1 and September 1 of each year. The September 1 report shall cover January 1 through June 30 of that year; the March 1 report shall cover July 1 through December 31 of the previous year. These reports shall contain the following information [20 DCMR 302.1(c)(3)(A)&(B)]:
  - A. Fuel use records in the format required by the unit-specific requirements of this permit;
  - B. All Method 9 visible emissions (opacity) observation results as well as the results of any non-Method 9 monitoring identifying visible emissions, per the unit-specific requirements of this permit;
  - C. The results of any other required monitoring referencing this section; and
  - D. A description of any deviation from permit requirements during the period covered by the report.
2. Annual Certification Report: By March 1 of each year, the Permittee shall submit to the Department and EPA an Annual Certification Report certifying compliance with the terms and conditions of this permit. The report shall cover the period from January 1 through December 31 of the previous year. [20 DCMR 302.1(c)(3) and 302.3(e)(1)]
  - A. The report shall [20 DCMR 302.3(e)(3)]:
    - i. Identify each term or condition of the permit that is the basis for certification;
    - ii. State the Permittee's current compliance status;
    - iii. Describe the testing, monitoring, and record keeping methods used to determine compliance with each emission limit, standard or other requirement over the reporting period; and
    - iv. State whether compliance has been continuous or intermittent during the reporting period for each emission limit, standard or other requirement as shown by these testing, monitoring, and record keeping methods.
  - B. The report shall include the following information for all fuel burning equipment

and stationary internal combustion engines/generators.

- i. Fuel Usage: The total amount of each type and grade of fuel burned during the reporting period shall be reported for each emission unit and for each group of emission units identified as a miscellaneous activity in this permit. Natural gas use shall be reported in therms (where one therm equals 100 cubic feet); fuel oil use shall be reported in gallons. The Permittee shall submit this information in a form approved by the Department. [20 DCMR 500.1]
- ii. Quality of Fuel Information: Unless more specific testing is specified elsewhere in this permit for a given emission unit, the Permittee shall sample and test the fuel oil burned in its fuel burning equipment and stationary internal combustion engines/generators, using appropriate ASTM methods, at least once each calendar quarter that fuel is fired in the units or at the time of each fuel delivery, whichever is less frequent, and shall report these data with the Annual Certification Report. For each sample, the Permittee must provide [20 DCMR 502]:
  1. The fuel oil type and the ASTM method used to determine the type (see the definition of distillate oil in 40 CFR 60.41c for appropriate ASTM methods);
  2. The weight percent sulfur of the fuel oil as determined using ASTM test method D-4294 or D-5453 or other method approved in advance by the Department;
  3. The date and time the sample was taken;
  4. The name, address, and telephone number of the laboratory that analyzed the sample; and
  5. The type of test or test method performed.

In lieu of sampling and testing fuel oil each quarter for each of these data, the Permittee may obtain any or all of these data from the fuel oil supplier at the time of delivery and submit fuel receipts and fuel supplier certifications for all fuel deliveries that provide all of the above quality of fuel data (or those for which sampling and testing was not performed at the time of delivery) as well as the name of the fuel oil supplier, the date of delivery, and the sulfur content of the oil.

Note that the sulfur content data obtained from the fuel supplier must be the results of specific tests of the fuel at hand or the most recent representative

fuel analysis from the fuel terminal prior to the fuel supplier obtaining the fuel for delivery to the Permittee, if such terminal analyses are performed on at least a monthly basis. General fuel specifications are not acceptable for this datum.

Terminal specifications (with references to appropriate ASTM methods as defined above) may be used to document the fuel oil type if the fuel supplier provides written certification that this was the material purchased from the terminal and delivered to the facility. If this method of determining the fuel oil type is used, the Department may opt to require occasional supplemental sampling and testing of the fuel oil to confirm these certifications.

If any of these data cannot be obtained from the fuel supplier, it is the responsibility of the Permittee to sample the fuel and have it analyzed to obtain the required data.

- iii. Boiler and Engine Adjustment Data: For all boiler and engine adjustments required pursuant to the conditions of this permit, the Annual Certification Report shall include sufficient data to substantiate that each boiler and engine has been adjusted in accordance with 20 DCMR 805.8 (a), (b), and (c) and any other related requirements specified in this permit. [20 DCMR 500.1]
- iv. Visible Emissions Test Data: For all EPA Reference Method 9 (40 CFR 60, Appendix A) testing required by this permit, the Annual Certification Report shall include:
  1. The date and time of each test;
  2. The name, address, and telephone number of the tester;
  3. Proof of the certification of the tester pursuant to Reference Method 9;
  4. Identification of the emission unit(s) being observed during the test;
  5. The operation rate of the unit being tested, as applicable, as follows:

*Note that if any of these data are estimated, a description of the estimation technique must also be included.*

    - a. The boiler load expressed in pounds of steam per hour (where possible) and the percent of rated capacity at which the boiler was operated during the test; or
    - b. The percent of rated capacity at which the engine or other equipment

was operated during the test;

6. The amount and type of fuel fired during the test; and
7. Data from a minimum of 30 minutes of visible emissions observations.

Unless otherwise specified in this permit, the Permittee shall fire the fuel expected to have the greatest likelihood to result in visible emissions among the fuels permitted to be used in the unit, unless that fuel has not and will not be used during the reporting period. If the only use of a given fuel in the reporting period is for purposes of periodic testing or combustion adjustment required by this permit, no visible emission test for that fuel will be required under this condition. [20 DCMR 502]

- C. As a supplement to the Annual Certification Report submitted to the Department, the Permittee shall submit, in duplicate, a report of the emissions from the facility during the previous calendar year. The emissions shall be reported on a per emission unit basis (though miscellaneous/insignificant sources and area sources may be grouped in a reasonable manner). If multiple fuels are used in fuel-burning equipment, the emissions shall also be reported on a per fuel basis for each emission unit. In addition, a summary table shall be provided showing total emissions from all units at the site. This emissions supplement shall include [20 DCMR 500.1]:

- i. Emissions of the following pollutants on a per fuel, per emission unit, and sum total basis as described above:
  1. Oxides of nitrogen (NO<sub>x</sub>);
  2. Sulfur dioxide (SO<sub>2</sub>);
  3. Carbon monoxide (CO);
  4. Volatile organic compounds (VOCs);
  5. Lead (Pb) and lead compounds, as defined in 40 CFR 50.12;
  6. Ammonia (NH<sub>3</sub>);
  7. Particulate matter in each of the following categories:
    - Total particulate matter (total filterable plus condensable),
    - Total particulate matter less than 10 microns in aerodynamic diameter

- (PM10, also known as PM10-PRI), equivalent to PM10-FIL plus PM-CON,
- Condensable particulate matter (PM-CON),
  - Filterable particulate matter less than 10 microns in aerodynamic diameter (PM10-FIL),
  - Total particulate matter less than 2.5 microns in aerodynamic diameter (PM2.5, also known as PM2.5-PRI), equivalent to PM2.5-FIL plus PM-CON, and
  - Filterable particulate matter less than 2.5 microns in aerodynamic diameter (PM2.5-FIL); and
8. All hazardous air pollutants (HAPs) as defined in §112(b) of the Clean Air Act, as revised.
- ii. Calculations and justification for each emission value reported in the summary table. The emissions reported shall be based on the best reasonably available method for estimating emissions. In general, the following list is the hierarchy of most accurate to least accurate methods:
1. Continuous emission monitoring data,
  2. Emissions data calculated based on emissions test data used with process operational/formulation data,
  3. Emissions data calculated based on manufacturer's specifications used with process operational/formulation data, and finally,
  4. AP-42 or other general emission factors used with process operational/formulation data.
- If questions arise as to the most accurate emissions estimation method, the Permittee is encouraged to consult the Department.
- iii. In addition to the summary table of total emissions during the calendar year, the Permittee shall submit the following:
1. An estimate of the average emissions of NO<sub>x</sub> during a typical work weekday between May 1 and September 30 (ozone season) from each emission unit (except miscellaneous/insignificant sources);
  2. An estimate of the average emissions of VOCs during a typical work weekday between May 1 and September 30 (ozone season) from each emission unit, with the exception of miscellaneous/insignificant sources.



Division by telephone via the Department's Emergency Operations number at (202) 645-5665, of any exceedance of any emission limit or any limit established as a surrogate for emissions. Additionally, the Permittee shall submit to the Air Quality Division a written notice of such exceedance within two working days of discovery. [20 DCMR 500.1]

- D. **Operational Flexibility:** Prior to making a change as provided for in Condition I(k) of this permit, titled "Section 502(b)(10) Changes" the Permittee shall give written notice to the Department and EPA at least seven calendar days before the change is to be made. The seven (7) calendar day period may be shortened or eliminated for an operational change that must be implemented more quickly to address unanticipated conditions that pose a significant health, safety, or environmental hazard. If less than a seven calendar day notice is given, the Permittee shall provide notice to the Department and EPA as soon as possible after learning of the need to make the change. In the notice, the Permittee must substantiate why seven-day advance notice could not be given. Written notices must include the following information [20 DCMR 302.8]:
- i. A description of the change to be made;
  - ii. The date on which the change will occur;
  - iii. Any changes in emissions; and
  - iv. Any permit terms and conditions that are affected, including those that are no longer applicable.
- E. **Off-Permit Changes:** The Permittee shall provide contemporaneous written notice of off-permit changes, made in accordance with Condition I(l) of this permit, to the Department and EPA. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change. [20 DCMR 302.9(b)]
- F. **Periodic Maintenance of Pollution Control Equipment:** Whenever it is necessary to shut down air pollution control equipment for periodic maintenance, the Permittee shall report the planned shutdown to the Department at least forty-eight hours prior to shutdown. The prior notice shall include, but not be limited to, the following [20 DCMR 107.2]:
- i. Identification of the specific facility to be taken out of service as well as its location and permit number;

- ii. The expected length of time that the air pollution control equipment will be out of service;
  - iii. The nature and quantity of emissions of air pollutants likely to occur during the shutdown period;
  - iv. Measures that will be taken to minimize the length of shutdown period; and
  - v. The reasons that it would be impossible or impractical to shutdown the source operation during the maintenance period.
5. All notifications, reports, and other documentation required by this permit shall be certified by a responsible official. [20 DCMR 302.1(c)(3)(D)]
  6. Nothing in this permit shall relieve the Permittee from any reporting requirements under federal or District of Columbia regulations.
  7. Within 15 days of receipt of a written request, the Permittee shall furnish to the Department any information the Department requests to determine whether cause exists for reopening or revoking the permit, or to determine compliance with the permit. Upon request, the Permittee shall also furnish the Department with copies of records required to be kept by the permit. [20 DCMR 302.1(g)(5)]
  8. The Permittee may request confidential treatment of information submitted in any report required by this permit pursuant to the limitations and procedures in 20 DCMR 301.1(c). [20 DCMR 302.1(e)(3)(E) and 20 DCMR 106]
  9. Annual Certification Reports, Semi-Annual Reports, notifications, supplemental reports, and other documentation required by this permit shall be sent to [20 DCMR 302.3(e)(4)]:

Chief, Compliance and Enforcement Branch  
Air Quality Division  
1200 First Street NE, 5<sup>th</sup> Floor  
Washington, DC 20002

10. Annual Certification Reports must be submitted to EPA Region 3 in electronic form at the following email address. [20 DCMR 302.3(e)(4)]:

R3\_APD\_Permits@epa.gov

e. Certification Requirements

Any document including all application forms, reports, and compliance certifications submitted to the Department pursuant to this permit shall contain a signed certification by a responsible official, as defined in 20 DCMR 399.1, with the following language: "I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." [20 DCMR 301.4]

f. Fees

The Permittee shall pay fees equal to the amount calculated by methods consistent with 20 DCMR 305. The fees shall be paid annually no later than 60 days after the Department issues an invoice or September 1 of each year, whichever comes first, beginning in 2015. The check for the fees shall be made payable to the "D.C. Treasurer" and mailed to [20 DCMR 302.1(h)]:

Attn: Chief, Compliance and Enforcement Branch  
Air Quality Division  
1200 First Street NE, 5<sup>th</sup> Floor  
Washington, DC 20002

g. Duty to Provide Supplemental Information

1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application or other submittal, the Permittee shall promptly submit to the Department the relevant supplementary facts and corrected information. [20 DCMR 301.2]
2. The Permittee shall promptly submit to the Department the information necessary to address any requirement that becomes applicable to the Permittee after the date the Permittee submitted any permit application. [20 DCMR 301.2]
3. Upon receipt of a written request, the Permittee shall furnish to the Department, within a reasonable time established by the Department:
  - A. Any information that the Department determines is reasonably necessary to evaluate or take final action on a permit application. [20 DCMR 301.1(b)(5)]
  - B. Any information the Department requests to determine whether cause exists to reopen, revise, terminate, or revoke this permit, or to determine compliance with the terms and conditions of this permit [20 DCMR 302.1(g)(5)]; and
  - C. Copies of any record(s) required to be kept by this permit [20 DCMR

302.1(g)(5)].

h. Construction, Installation, or Alteration

1. The Permittee shall not initiate construction, installation, or modification of any equipment or facility which emits or controls air pollutants prior to obtaining a construction permit from the Department in accordance with 20 DCMR 200.
2. When construction, installation, or alteration has been performed, the Permittee shall take all actions required by 20 DCMR 300 to obtain a revision of the Title V operating permit to reflect the new or modified equipment.

i. Permit Renewal, Expiration, Reopening, Revision, and Revocation

1. This permit expires five (5) years after its effective date [20 DCMR 302.1 (b)], but may be renewed before it expires pursuant to 20 DCMR 303.
  - A. The Permittee shall file an application for renewal of this permit at least six (6) months before the date of permit expiration. [20 DCMR 301.1(a)(4)] Compliance with this requirement may be waived if the Permittee has submitted a request for permit termination by this deadline.
  - B. The Permittee's right to operate ceases on the expiration date unless a complete permit renewal application has been submitted to the Department not later than six (6) months prior to the expiration date or the Department has taken final action approving the source's application for renewal by the expiration date. [20 DCMR 301.1(a)(4) and 303.3(b)].
  - C. If a timely and complete application for renewal of this permit is submitted to the Department, but the Department, through no fault of the Permittee, fails to take final action to issue or deny the renewal permit before the end of the term of this permit, then this permit shall not expire until the renewal permit has been issued or denied. [20 DCMR 303.3(c)]
  - D. An application for renewal may address only those portions of the permit that require revision, supplementing, or deletion, incorporating the remaining permit terms by reference from the previous permit. The Department may similarly, in issuing a draft renewal permit or proposed renewal permit, specify only those portions that will be revised, supplemented, or deleted, incorporating the remaining permit terms by reference. [20 DCMR 303.1(a) and 303.3(a)]
2. This permit may be amended at any time in accordance with the requirements of 20 DCMR 303.4 or 303.5, as applicable.

3. This permit shall be reopened for cause if any of the following occur [20 DCMR 303.6(a)]:
  - A. The Department or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms of the permit;
  - B. Additional applicable requirements under the Clean Air Act become applicable to the facility; provided, that reopening on this ground is not required if the following occurs:
    - i. The facility is not a major source;
    - ii. The permit has a remaining term of less than three (3) years;
    - iii. The effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 20 DCMR 303.3(c); or
    - iv. The additional applicable requirements are implemented in a general permit that is applicable to the facility and the facility receives approval for coverage under that general permit;
  - C. Additional requirements (including excess emissions requirements) become applicable to a source under the Acid Rain program; provided, that upon approval by EPA excess emissions offset plans shall be deemed to be incorporated into the permit; or
  - D. The Department or EPA determines that the permit must be revised to assure compliance by the source with applicable requirements.
4. While a reopening proceeding is pending, the Permittee shall be entitled to the continued protection of any permit shield provided in this permit pending issuance of a modified permit unless the Department specifically suspends the shield on the basis of a finding that the suspension is necessary to implement applicable requirements. If such a finding applies only to certain applicable requirements or to certain permit terms, the suspension shall extend only to those requirements or terms. [20 DCMR 303.6(d)]
5. This permit may be reopened for modifications or revoked for cause by EPA in accordance with 20 DCMR 303.7.
6. The Department may terminate a permit in accordance with 20 DCMR 303.8 at the request of the Permittee or revoke it for cause. Cause for revocation exists if the

following occurs [20 DCMR 303.8(a)]:

- A. The permitted stationary source is in violation of any term or condition of the permit and the Permittee has not undertaken appropriate action (such as a schedule of compliance) to resolve the violation;
  - B. The Permittee has failed to disclose material facts relevant to issuance of the permit or has knowingly submitted false or misleading information to the Department;
  - C. The Department finds that the permitted stationary source or activity substantially endangers public health, safety, or the environment, and that the danger cannot be removed by a modification of the terms of the permit;
  - D. The Permittee has failed to pay permit fees required under 20 DCMR 305 and Section I(f) of this permit; or
  - E. The Permittee has failed to pay a civil or criminal penalty imposed for violations of the permit.
7. The Permittee may at any time apply for termination of all or a portion of this permit relating solely to operations, activities, and emissions that have been permanently discontinued at the permitted stationary source. An application for termination shall identify with specificity the permit or permit terms that relate to the discontinued operations, activities, and emissions. In terminating all or portions of this permit pursuant to this condition, the Department may make appropriate orders for the submission of a final report or other information from the Permittee to verify the complete discontinuation of the relevant operations, activities, and emissions. [20 DCMR 303.8(d)]
8. The Permittee may apply for termination of this permit on the ground that its operations, activities, and emissions are fully covered by a general permit for which it has applied for and received coverage pursuant to 20 DCMR 302.4. [20 DCMR 303.8(e)]
9. Except as provided under 20 DCMR 303.5(b) for minor permit modifications, the filing of a permit reopening, revocation or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [20 DCMR 302.1(g)(3)]
- j. Permit and Application Consultation

The Permittee is encouraged to consult with Department personnel at any time

concerning the construction, operation, modification or expansion of any facility or equipment; the operation of required pollution control devices or systems; the efficiency of air pollution control devices or systems; applicable requirements; or any other air pollution problem associated with the installation.

k. Section 502(b)(10) Changes

Under the following conditions, the Permittee is expressly authorized to make Clean Air Act ("the Act") Section 502(b)(10) changes without a permit amendment or permit modification provided that such a change is not a modification under any provision of Title I of the Act, does not include any changes in the date(s) included in any compliance schedule, and does not result in a level of emissions exceeding the emissions allowed under the permit, whether expressed herein as a rate of emissions or in terms of total emissions: [20 DCMR 302.8]

1. Before making a change under this provision, the Permittee shall provide advance written notice to the Department and to the Administrator, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected including those which are no longer applicable. The Permittee shall thereafter maintain a copy of the notice with the permit, and the Department shall place a copy with the permit in the public file. The written notice shall be provided to the Department and the Administrator at least seven (7) days before the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to the unanticipated conditions, the Permittee shall provide notice to the Department and the Administrator immediately upon learning of the need to make the change;
2. A permitted source may rely on the authority of this section to trade increases and decreases in emissions within the stationary source, where the applicable requirements provide for the emissions trades without a permit revision. In such a case, the advance written notice provided by the Permittee shall identify the underlying authority authorizing the trading and shall state when the change will occur, the types and quantities of emissions to be traded, the permit terms or other applicable requirements with which the source will comply through emissions trading, and any other information as may be required by the applicable requirement authorizing the emissions trade;
3. Any permit shield provided under Condition V of this permit pursuant to 20 DCMR 302.6 shall not apply to changes made under this section, except those provided for in Condition I(k)(4) of this permit; however, the protection of the permit shield will

continue to apply to operations and emissions that are not affected by the changes; provided, that the Permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The shield may be reinstated for emissions and operations affected by the change:

- A. If subsequent changes cause the stationary source's operations and emissions to revert to those contained in the permit and the Permittee resumes compliance with the terms and conditions of the permit; or
  - B. If the Permittee obtains a significant modification to the permit pursuant to Condition I(i) of this permit to codify the change in the permit, and the modified permit expressly provides protection under the shield for the change; and
4. Upon the request of the Permittee, the Department shall issue a permit that contains terms and conditions allowing for the trading of emissions increases and decreases in the permitted stationary source solely for the purpose of complying with a federally-enforceable emissions cap that is established in the permit independent of otherwise applicable requirements. The Permittee shall include in its application proposed replicable procedures and permit terms that assure that the emissions trades are quantifiable and enforceable and comply with all applicable requirements and 20 DCMR Sections 302.1 and 302.3. The permit shield under Condition V of this permit shall apply to permit terms and conditions authorizing such increases and decreases in emissions. Under this paragraph, the written notification required under this section shall state when the change will occur and shall describe the changes in emissions that will result and how these increases and decreases in emissions will comply with the terms and conditions of the permit.

1. Off-Permit Changes

The Permittee may make any change in its operations or emissions not addressed or prohibited in this permit without obtaining an amendment or modification of this permit subject to the following requirements and restrictions [20 DCMR 302.9]:

1. The change shall meet all applicable requirements and may not violate any existing permit term or condition;
2. The Permittee shall provide contemporaneous written notice of the change to the Department and the Administrator. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change;
3. The change shall not qualify for any permit shield found in Condition V of this permit;

4. The Permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
5. The Permittee may not make, without a revision of its permit, a change that is not addressed or prohibited by its permit if such change is subject to any requirements under Title IV of the Act or is a modification under any provision of Title I of the Act.

m. Economic Incentives

This permit shall require no revision under any approved economic incentives, marketable permits, emissions trading, or other similar programs or processes for changes that are provided for in this permit. [20 DCMR 302.1(i)]

n. Emissions Trading and Averaging

There are no applicable emissions trading or averaging applicable at this facility, unless otherwise specified in this permit. [20 DCMR 302.1(k)]

o. Entry and Inspection

The Permittee shall allow authorized officials of the District, upon presentation of identification, to [20 DCMR 302.3(b) and 20 DCMR 101] *Note: This is a streamlined condition. The requirements of 20 DCMR 302.3(b) are more stringent than those of 20 DCMR 101, thus this permit only incorporates the conditions of 20 DCMR 302.3(b). Compliance with these conditions will be considered compliance with both regulations.:*

1. Enter upon the Permittee's premises where a source or emission unit is located, an emissions related activity is conducted, or where records required by this permit are kept;
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of this permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor, at reasonable times, any substance or parameter for the purpose of assuring compliance with this permit or any applicable requirement.

p. Enforcement

1. Failure to comply with the federally enforceable terms and conditions of this permit constitutes a violation of the federal Clean Air Act. The District, EPA, and/or citizens may enforce federally enforceable permit terms and conditions. [20 DCMR 302.2(a) and 20 DCMR 302.1(g)(1)]
2. Failure to comply with the terms and conditions of this permit designated as a District-only requirement constitutes a violation of the District of Columbia air quality laws and regulations. The Department will enforce these permit terms and conditions. [20 DCMR Chapter 1]
3. Failure to comply with permit terms and conditions is grounds for enforcement action, permit revocation, or for denial of a permit renewal application [20 DCMR 302.1(g)(1)]; and/or administrative, civil, or criminal enforcement action. [20 DCMR 105]
4. In any enforcement proceeding, the Permittee shall have the burden of proof when seeking to establish the existence of an emergency. [20 DCMR 302.7(c)]
5. This permit may be amended, reopened, modified, revoked, or reissued for cause in accordance with 20 DCMR 303 and Condition I(i) of this permit. Except as provided under 20 DCMR 303.5, the filing by the Permittee of a request for a permit revision, termination, or notification of planned changes or anticipated noncompliance, does not stay any term or condition of this permit. [20 DCMR 302.1(g)(3)]

q. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege to the Permittee. [20 DCMR 302.1(g)(4)]

r. Severability

The provisions of this permit are severable. If any part of this permit is held invalid, the remainder of this permit shall not be affected thereby and shall remain valid and in effect. [20 DCMR 302.1(f)]

s. Alternative Operating Scenarios

No alternative operating scenarios are applicable unless specified in the emission unit specific conditions of this permit (Condition III). [20 DCMR 302.1(j)]

## II. Facility-Wide Permit Requirements

The Permittee shall comply with the following facility-wide permit requirements wherever applicable to the facility:

### a. General Maintenance and Operations

At all times, including periods of start-up and malfunction, the Permittee shall, to the extent practicable, maintain and operate stationary sources and fuel-burning equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions. [20 DCMR 606.3]

### b. Visible Emissions

1. Visible emissions shall not be emitted into the outdoor atmosphere from stationary sources (excluding fuel-burning equipment placed in initial operation before January 1, 1977); provided, that discharges not exceeding forty percent (40%) opacity (unaveraged) shall be permitted for two (2) minutes in any sixty (60) minute period for an aggregate of twelve (12) minutes in any twenty-four hour (24 hr.) period during start-up, cleaning, soot blowing, adjustment of combustion controls, or malfunction of equipment. [20 DCMR 606.1]
2. Visible emissions whose opacity is in excess of ten percent (10%) (unaveraged), at any time shall not be permitted into the outdoor atmosphere, from any fuel-burning equipment placed in initial operation before January 1, 1977; provided that [20 DCMR 606.2]:
  - A. Opacity not in excess of forty percent (40%) (unaveraged) shall be permitted for two (2) minutes in any sixty (60) minute period and for an aggregate of twelve (12) minutes in any twenty-four hour (24 hr.) period other than during start-up of equipment;
  - B. During start-up of equipment, opacity not in excess of forty percent (40%) [averaged over six (6) minutes] shall be permitted for an aggregate of five (5) times per start-up; and
  - C. In addition to the emissions permitted under Condition II(b)(2)(A), during shutdown of equipment, opacity not in excess of fifteen percent (15%) (unaveraged) shall be allowed and in addition, opacity not in excess of thirty percent (30%) [averaged over three (3) minutes] shall be permitted for an aggregate of three (3) times per shutdown.

c. Control of Fugitive Dust

The Permittee shall ensure that fugitive dust from the facility is controlled in accordance with 20 DCMR 605 as follows:

1. Reasonable precautions shall be taken to minimize the emission of any fugitive dust into the outdoor atmosphere. The reasonable precautions shall include, but not be limited to, the following:
  - A. In the case of unpaved roads, unpaved roadways, and unpaved parking lots;
    - i. Use of binders, chemicals, or water in sufficient quantities and at sufficient frequencies to prevent the visible emission of dust due to the movement of vehicles or of the wind; and
    - ii. Prompt clean-up of any dirt, earth, or other material from the vicinity of the road, roadway, or lot which has been transported from the road, roadway, or lot due to anthropogenic activity or due to natural forces.
  - B. In the case of paved roads, paved roadways, and paved parking lots: Maintenance of the road, roadway, lot, or paved shoulder in a reasonably clean condition through reasonably frequent use of water, sweepers, brooms, or other means, through reasonably frequent removal of accumulated dirt from curb-side gutters, through reasonably prompt repair of pavement, or through any other means;
  - C. In the case of vehicles transporting dusty material or material which is likely to become dusty:
    - i. Fully covering the material in question, with a tarpaulin or other material; and
    - ii. Operation, maintenance, and loading of the vehicle, distribution of the loaded material on or in the vehicle, and limiting the quantity of material loaded on or in the vehicle, so that there will be no spillage of the material onto the roads;
  - D. In the case of vehicles which accumulate dirt on the wheels, undercarriages, and other parts of the vehicle, due to the movement of the vehicle on dusty, dirty or muddy surfaces: Water washing of all of the dirty parts of the vehicle to thoroughly remove the dirt before or immediately after the vehicle leaves the dusty, dirty, or muddy surface;
  - E. In the case of the demolition of buildings or structures: Use, to the extent possible, of water;

- F. In the case of removal of demolition debris which is dusty or likely to become dusty: Use of water to thoroughly wet the material before moving or removing the material and keeping it wet or otherwise in a dust-free condition until eventual disposal;
  - G. In the case of loading and unloading of dusty material and in the case where dry sand-blasting or dry abrasive cleaning is necessary: Use of enclosed areas or hoods, vents, and fabric filters. If it is shown to the satisfaction of the Department that use of enclosed areas, hoods, vents, and fabric filters is not possible, alternate control techniques acceptable to the Department and designed to minimize the emissions to the extent possible shall be utilized; and
  - H. In the case of stockpiles of dusty material: Use, where possible, of closed silos, closed bins or other enclosures which are adequately vented to fabric filters. Where the use of closed silos, closed bins, or other enclosures is not possible, thorough wetting of the material before loading onto the stockpile and keeping the stockpile wetted, covered, or otherwise in a non-dusty condition.
2. The emission of fugitive dust from the following is prohibited:
- A. Any material handling, screening, crushing, grinding, conveying, mixing, or other industrial-type operation or process;
  - B. Heater-planers in repairing asphaltic concrete pavements;
  - C. Portable tar-melters, unless close-fitting lids, in good repair, for the tar-pots are available and are used;
  - D. The ventilation of any tunneling operation; or
  - E. The cleaning of exposed surfaces through the use of compressed gases.
3. All persons shall comply with the provisions of this Condition and those of the Soil Erosion and Sedimentation Control Act of 1977 (D.C. Law 2-23).
4. In those circumstances where it is not possible to comply with specific provisions of both this Condition and the Soil Erosion and Sedimentation Control Act of 1977 (D.C. Law 2-23), the provisions of the Soil Erosion and Sedimentation Control Act of 1977 (D.C. Law 2-23), shall prevail.
- d. Open Fires

Open fires shall be prohibited at the Permittee's facility, except as otherwise provided for in 20 DCMR 604.2. [20 DCMR 604]

e. Asbestos

The Permittee shall adhere to the requirements of 20 DCMR 800\* pertaining to handling of asbestos-containing materials.

f. Fuel Oil Sulfur Content

Except where a more stringent requirement exists elsewhere in this permit, the Permittee shall not purchase, sell, offer for sale, store, or use fuel oil that is to be burned at the facility or any other location in the District, that contains more than 1% sulfur by weight. [20 DCMR 801]

g. Engine Idling

The Permittee shall ensure that the provisions of 20 DCMR 900\* pertaining to engine idling are met at the facility. Specifically, the facility shall ensure that no engine of a gasoline or diesel powered motor vehicle, the engine of a public vehicle for hire, including buses with a seating capacity of twelve (12) or more persons, shall idle for more than three (3) minutes while the motor vehicle is parked, stopped, or standing, on the premises or on roadways adjacent to the premises for the purpose of serving the premises, including for the purpose of operating air conditioning equipment in those vehicles, except as follows:

1. To operate private passenger vehicles;
2. To operate power takeoff equipment including: dumping, cement mixers, refrigeration systems, content delivery, winches, or shredders; or
3. To idle the engine for five (5) minutes to operate heating equipment when the ambient air temperature is thirty two degrees Fahrenheit (32 °F) or below.

h. Fleet Maintenance

Permittee shall ensure that the engines, power, and exhaust mechanisms of each vehicle of its motor fleet is equipped, adjusted, maintained, and operated so as to prevent the escape of a trail of visible fumes or smoke for more than ten (10) consecutive seconds. [20 DCMR 901]\*

i. Lead in Gasoline

The Permittee shall ensure that gasoline sold at the facility contains no more than one gram of lead per gallon. [20 DCMR 902]\*

j. Odors and Nuisance Air Pollutants

The Permittee shall ensure that the facility does not emit into the atmosphere any odorous or other air pollutant, from any source, in any quantity, and of any characteristic and duration which is, or is likely to be, injurious to the public health or welfare, or which interferes with the reasonable enjoyment of life and property. [20 DCMR 903]\*

k. Risk Management

1. The Permittee shall ensure that the requirements of 40 CFR part 68, as in effect on September 30, 1997, are complied with at the site for the purposes of preventing, detecting, and responding to accidental chemical releases to the air, pursuant to the requirements of Section 112(r) of the Federal Clean Air Act with the terms used and defined in those provisions. [20 DCMR 402]\*
2. Should this stationary source, as defined in 40 CFR part 68.3, become subject to part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in Part 68.10 and shall certify compliance with the requirements of part 68 as part of the annual compliance certification required by 40 CFR part 70 or 71. [20 DCMR 302.1(d)]

l. Protection of Stratospheric Ozone

1. The Permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82 Subpart E [20 DCMR 302.1 and 399.1 "Applicable Requirement" (k)]:
  - A. All containers in which a Class I or Class II substance is stored or transported, all products containing a Class I substance, and all products directly manufactured with a process that uses a Class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106;
  - B. The placement of the required warning statement must comply with the requirements pursuant to §82.108;
  - C. The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110; and
  - D. No person may modify, remove or interfere with the required warning statement except as described in §82.112.
2. The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F:

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- A. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 CFR 82.154 and 40 CFR 82.156;
  - B. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  - C. Persons maintaining, servicing, repairing or disposing of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  - D. Persons maintaining, servicing, repairing, or disposing of appliances must certify to the Administrator of EPA pursuant to 40 CFR 82.162;
  - E. Persons disposing of small appliances, MVACs and MVAC-like appliances, must comply with the record-keeping requirements pursuant to 40 CFR 82.166;
  - F. Owners of commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  - G. Owners or operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
3. If the Permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the Permittee is subject to all the requirements as specified in 40 CFR 82, Subpart A (Production and Consumption Controls).
  4. If the Permittee performs a service on a motor vehicle that involves an ozone-depleting substance refrigerant or regulated substitute substance in the MVAC, then Permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B (Servicing of Motor Vehicle Air Conditioners).
  5. The Permittee may switch from any ozone-depleting substance to any alternative that is listed as acceptable in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR Part 82, Subpart G.
  6. Halon Emissions Reduction: Any person testing, servicing, maintaining, repairing or disposing of equipment that contains halons or using such equipment during technical training and any person disposing of halons, manufacturers of halon blends, and organizations employing technicians who service halon containing equipment shall comply with the requirements of 40 CFR 82, Subpart H.

m. Architectural and Maintenance Coatings

1. Paints and refinishing coatings that contain volatile organic compounds (VOCs) in excess of the limits specified in the table below, including any VOC containing materials added to the original coating supplied by the manufacturer, shall be prohibited. [20 DCMR 773.1, 774.1, and 774.10]

VOC Content Limits for Architectural Coatings.<sup>1</sup>

<u>Coating Category</u>	<u>VOC Content Limit</u> (Grams VOC per liter) <sup>2</sup>
Flat Coatings	100
Non-flat Coatings	150
Non-flat- High Gloss Coatings	250

<u>Specialty Coatings</u>	<u>VOC Content Limit</u> (Grams VOC per liter) <sup>2</sup>
Antenna Coatings	530
Antifouling Coatings	400
Bituminous Roof Coatings	300
Bituminous Roof Primers	350
Bond Breakers	350
Calcimine Recoater	475
Clear Wood Coatings	
•Clear Brushing Lacquers	680
•Lacquers (including lacquer sanding sealers)	550
•Sanding Sealers (other than lacquer sanding sealers)	350
•Varnishes	350
Concrete Curing Compounds	350
Concrete Surface Retarders	780
Conjugated Oil Varnish	450
Conversion Varnish	725
Dry Fog Coatings	400
Faux Finishing Coatings	350
Fire-Resistive Coatings	350
Fire-Retardant Coatings	
•Clear	650
•Opaque	350
Floor Coatings	250
Flow Coatings	420
Form-Release Compounds	250

<b>Specialty Coatings</b>	<b>VOC Content Limit (Grams VOC per liter)<sup>2</sup></b>
Graphic Arts Coatings (Sign Paints)	500
High-Temperature Coatings	420
Industrial Maintenance Coatings	340
Impacted Immersion Coatings	780
Low-Solids Coatings <sup>3</sup>	120
Magnesite Cement Coatings	450
Mastic Texture Coatings	300
Metallic Pigmented Coatings	500
Multi-Color Coatings	250
Nuclear Coatings	450
Pre-Treatment Wash Primers	420
Primers, Sealers, and Undercoaters	200
Reactive Penetrating Carbonate Stone Sealer	600
Quick-Dry Enamels	250
Quick-Dry Primers, Sealers and Undercoaters	200
Recycled Coatings	250
Roof Coatings	250
Rust Preventative Coatings	400
Shellacs	
•Clear	730
•Opaque	550
Specialty Primers, Sealers, and Undercoaters	350
Stains	250
Stone Consolidants	450
Swimming Pool Coatings	340
Swimming Pool Repair and Maintenance Coatings	340
Temperature-Indicator Safety Coatings	550
Thermoplastic Rubber Coatings and Mastics	550
Traffic Marking Coatings	150
Waterproofing Sealers	250
Waterproofing Concrete/Masonry Sealers	400
Wood Preservatives	350

<sup>1</sup> Limits are expressed in grams of VOC per liter of coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, exempt compounds, or colorant added to tint bases. Manufacturer's maximum recommendation means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

<sup>2</sup> Conversion factor: one pound VOC per gallon (U.S.) = 119.95 grams per liter.

<sup>3</sup> Units for this coating are grams of VOC per liter (pounds of VOC/gallon) of coating, including water and exempt compounds.

2. The Permittee shall not apply a coating that is thinned to exceed the applicable VOC

limit specified in the above table. [20 DCMR 774.5]

3. The Permittee shall not apply any rust preventive coating for industrial use, unless such a rust preventive coating complies with the industrial maintenance coating VOC limit specified in the above table. [20 DCMR 774.6]
4. For any coating that does not meet any of the definitions for the specialty coatings categories listed in the table above, the VOC content limit shall be determined by classifying the coating as a flat coating or a non-flat coating, based on its gloss, as defined in 20 DCMR 799, and the corresponding flat or non-flat coating limit shall apply. [20 DCMR 774.7]
5. Notwithstanding the provisions of Condition II(n)(1) of this permit, a person or facility may add up to ten percent (10%) by volume of VOC to a lacquer to avoid blushing of the finish during days with relative humidity greater than seventy percent (70%) and temperature below sixty-five degrees Fahrenheit (65° F) or eighteen degrees Celsius (18° C) at the time of application, provided that the coating contains acetone and no more than five hundred fifty grams (550 g.) of VOC per liter of coating, less water and exempt compounds, before the addition of VOC. [20 DCMR 774.10]

### III. Emission Unit Specific Requirements

This operating permit identifies emission units based on information provided by the Permittee and cites specific applicable regulations from 20 DCMR, as well as the Code of Federal Regulations (CFR). These cited regulations and rules stipulate the conditions under which the Permittee is permitted to operate, the control equipment (where applicable) that must be used to minimize air pollution, and the monitoring, testing, record keeping, and reporting requirements that will enable the Permittee to demonstrate, to the Department and EPA, compliance with regulatory requirements.

Operation of the emission units listed below is permitted subject to the facility complying with the following emission limits, standards, and other requirements specified herein and elsewhere in this permit. [20 DCMR 300]

Emission Units <sup>1</sup>			
Emission Unit ID	Stack ID	Emission Unit Name	Description
CU-1, 2 & 4	001	Building 7 Boilers	Three (3) 47 MMBTU/hr natural gas fired Keeler boilers located at the boiler plant.
EG-1	002	Boiler Plant Building 7 Emergency Generator	One (1) 625 kWe Marathon Electric Generators Magnapower emergency generator set with an approximately 950 bhp diesel fired engine

Emission Units <sup>1</sup>			
Emission Unit ID	Stack ID	Emission Unit Name	Description
EG-2	003	Pediatrics Building 9 Emergency Generator	One (1) 300 kWe Kohler emergency generator set with a 463 bhp diesel fired engine
EG-3	004	Core Building Emergency Generator	One (1) 300 kWe Caterpillar emergency generator set with a 480 bhp diesel fired engine
EG-4	005	ACCC Building Emergency Generator	One (1) 750 kWe Onan by Cummins emergency generator set with a 1,135 bhp diesel fired engine
EG-5	006	Building 12 Emergency Generator	One (1) 51 kWe Kohler by Cummins emergency generator set with an 80 bhp diesel fired engine
EG-6	007	Building 14 Emergency Generator	One (1) 250 kWe Cummins emergency generator set with a 380 bhp diesel fired engine
EG-7	008	Building 15 Emergency Generator	One (1) 25 kWe Generac emergency generator set with a 51 bhp diesel fired engine
EG-8	009	OME Building Emergency Generator	One (1) generator set of unidentified electrical output with a 277 hp diesel fired Cummins engine
EG-9	010	DC Jail-IYP Courtyard Emergency Generator	One (1) 1,500 kWe Cummins emergency generator set with a 2,220 bhp diesel fired engine
EG-10	011	DC Jail-North Tunnel Emergency Generator	One (1) 540 kWe Kato emergency generator set with a 850 bhp diesel fired engine
EG-11	012	DC Jail-South Tunnel Emergency Generator	One (1) 540 kWe Kato emergency generator set with a 850 bhp diesel fired engine
EG-12	013	DC Jail-Rooftop Emergency Generator	One (1) 1,100 kWe emergency generator set with 1,588 bhp Caterpillar diesel fired engine
EG-13	014	DC Jail-Penthouse Emergency Generator	One (1) 540 kWe emergency generator set with an 850 bhp diesel fired engine

<sup>1</sup>Miscellaneous/Insignificant activities are listed separately in Condition IV of this permit.

- a. Emission Units: CU-1, CU-2, and CU-4: Three (3) 47 MMBTU/hr Keeler natural gas boilers.

1. Emission Limitations:

- A. Each of the boilers shall not emit pollutants in excess of those specified in the following tables [20 DCMR 201]:

Boiler Emission Limits per Unit (CU-1, CU-2 and CU-4)	
Pollutant	Short-Term Limit (Natural Gas) (lb/hr)
Carbon Monoxide (CO)	3.87
Oxides of Nitrogen (NO <sub>x</sub> )	1.47
Total Particulate Matter (PM Total) (includes total filterable plus condensables)	0.35

- B. Total suspended particulate matter (TSP) from each of boilers CU-1, CU-2, and

CU-4, shall not be greater than 0.07 pound per million BTU. [20 DCMR 600.1]

- C. Visible emissions whose opacity is in excess of ten percent (10%) (unaveraged), at any time shall not be emitted into the outdoor atmosphere, from emission units CU-1, CU-2, or CU-3 provided that: [20 DCMR 606.2]
- i. Opacity not in excess of forty percent (40%) (unaveraged) shall be permitted for two (2) minutes in any sixty (60) minute period and for an aggregate of twelve (12) minutes in any twenty-four hour (24 hr.) period other than during start-up of equipment;
  - ii. During start-up of equipment, opacity not in excess of forty percent (40%) (averaged over six (6) minutes) shall be permitted for an aggregate of five (5) times per start-up; and
  - iii. In addition to the emissions permitted under Condition III(a)(1)(C)(i), during shutdown of equipment, opacity not in excess of fifteen percent (15%) (unaveraged) shall be allowed and in addition, opacity not in excess of thirty percent (30%) (averaged over three (3) minutes) shall be permitted for an aggregate of three (3) times per shutdown.

*Note that these units were determined to have been placed in initial operation before January 1, 1977, hence the applicability of 20 DCMR 606.2. See the email from Carl Kohlmeyer of Global Consulting, Inc. to Manuel Oliva of the Department, dated June 2, 2015.*

- D. NO<sub>x</sub> and CO emissions shall not exceed those achieved with the performance of annual combustion adjustments on each boiler. To show compliance with this condition, the Permittee shall, each calendar year, perform adjustments of the combustion processes of the boilers with the following characteristics [20 DCMR 805.5(a) and 20 DCMR 805.8(a) and (b)]:
- i. Inspection, adjustment, cleaning or replacement of fuel burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer;
  - ii. Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NO<sub>x</sub> and, to the extent practicable, minimize emissions of CO;
  - iii. Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer; and

2. Operational Limitations:

- A. The only permissible fuel for the boilers shall be natural gas. [20 DCMR 201]
- B. The boilers shall be operated at all times in a manner consistent with the manufacturer's specifications for the equipment or to industry standards for similar models if manufacturer specifications are unavailable.
- C. At all times, including periods of startup, shutdown, and malfunction, the owner or operator shall, to the extent practicable, maintain and operate each boiler in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [20 DCMR 201]

3. Monitoring and Testing:

- A. By March 31, 2017 and at least once every five years thereafter, the Permittee shall conduct performance tests to determine compliance with Condition III(a)(1)(A) and (B). As part of these performance test requirements, the Permittee shall furnish the Department with a written report of the results of such performance tests in accordance with the following procedures: [20 DCMR 502]
  - i. One (1) original and one (1) copy of the test protocol shall be submitted to the following address a minimum of thirty (30) days in advance of the proposed test date. The test shall be conducted in accordance with Federal and District requirements.  
  
Chief, Compliance and Enforcement Branch  
Air Quality Division  
1200 First Street NE, 5<sup>th</sup> Floor  
Washington, DC 20002
  - ii. The test protocol shall be approved by the Department prior to initiating any testing. Upon approval of the test protocol, the Company shall finalize the test date with the assigned inspector in the Compliance and Enforcement Branch. The Department must have the opportunity to observe the test for the results to be considered for acceptance.
  - iii. The final results of the testing shall be submitted to the Department within sixty (60) days of the test completion. One (1) original and one (1) copy of

the test report shall be submitted to the address in Condition III(a)(3)(A)(i) above.

- iv. The final report of the results shall include the emissions test report (including raw data from the test) as well as a summary of the test results and a statement of compliance or non-compliance with permit conditions to be considered valid. The summary of results and statement of compliance or non-compliance shall contain the following information:
    1. A statement that the owner or operator has reviewed the report from the emissions testing firm and agrees with the findings.
    2. Permit number(s) and condition(s) which are the basis for the compliance evaluation.
    3. Summary of results with respect to each permit condition.
    4. Statement of compliance or non-compliance with each permit condition.
  - v. The results must demonstrate to the Department's satisfaction that the emission unit is operating in compliance with the applicable regulations and conditions of this permit; if the final report of the test results shows non-compliance the owner or operator shall propose corrective action(s). Failure to demonstrate compliance through the test may result in enforcement action.
- B. At least once per quarter during operation of each boiler, the Permittee shall conduct visual observations of the emissions from each boiler. If no operations occur for a given boiler during any quarter, this shall be so noted and observations shall be performed during the next available period of operation. If emissions are visible, the Permittee shall make arrangements for prompt visible emissions testing by a person certified in accordance with EPA Reference Method 9 (40 CFR 60, Appendix A). Such a test shall consist of a minimum of 30 minutes of opacity observations for the boiler in question and shall be performed while firing the same fuel as was in use when the visible emissions were observed. [20 DCMR 502]
- C. Regardless of whether or not emissions are observed pursuant to Condition III(a)(3)(B) of this permit, the Permittee shall conduct a minimum of one visible emissions test of each boiler each year to determine compliance with Condition III(a)(1)(C). [20 DCMR 502]
- i. Such a test program shall consist of a minimum of 30 minutes of opacity observations of each boiler firing natural gas and shall be performed by a

person certified in accordance with EPA Reference Method 9 (40 CFR 60, Appendix A).

ii. Prior to such a test, the Permittee shall notify the Compliance and Enforcement Branch of the scheduled date of the test by one of the following methods:

1. The Permittee shall submit a letter via postal mail to the address in Condition III(a)(3)(A)(i), postmarked at least fifteen (15) days prior to the scheduled date of the test;
2. The Permittee shall drop off a letter at the Department's office, addressed to the Chief of the Compliance and Enforcement Branch of the Air Quality Division at least ten (10) days prior to the scheduled date of the test; or
3. The Permittee shall submit an email to the Chief of the Compliance and Enforcement Branch at least ten (10) days prior to the scheduled date of the test. The appropriate email address can be obtained by calling the Air Quality Division number at (202) 535-2250.

4. Record Keeping and Reporting Requirements:

- A. The Permittee shall keep records of the results of all emissions testing required for the boilers pursuant to Conditions III(a)(3)(A) and I(a)(6) in accordance with the requirements specified in Condition I(c). For testing required pursuant to Condition III(a)(3)(A) reporting shall be performed in accordance with Conditions III(a)(3)(A)(iii) through (v). For testing required pursuant to Condition I(a)(6) reporting shall be performed as specified by the Department.
- B. The Permittee shall maintain records of all visible emissions monitoring performed pursuant to Condition III(a)(3)(B) including notes indicating when no observations were performed as a result of no operations of a given boiler that quarter. These records shall be maintained in an organized fashion, shall include the identity of the person performing the monitoring, and shall be readily available for inspection by the Department.
- D. The Permittee shall maintain records of all Method 9 visible emissions testing performed pursuant to Conditions III(a)(3)(B) and (C) in accordance with the requirements specified in Condition I(c). These records shall also include the identity of the person performing the visible emissions testing and documentation of his/her Method 9 certification. These records shall include documentation indicating whether the results show compliance with Conditions III(a)(1)(C).

E. The Permittee shall maintain records of the amount of fuel used each month in the boilers. These data shall be maintained in a rolling twelve month sum format. [20 DCMR 500.2]

b. Emission Units: NSPS Compression Ignition-Internal Combustion Engines (CI-ICE) Emergency Generators: Three (3) diesel emergency standby generators subject to the New Source Performance Standards (NSPS) are as follows:

Equipment Location	Emission Unit Description	Equipment Model Number(s)
DC General Health Campus, Building 9	One (1) 300 kWe Kohler emergency generator set with a 463 bhp diesel fired engine	300 REOZ
DC General Health Campus, Core Building	One (1) 300 kWe Caterpillar emergency generator set with a 480 bhp diesel fired engine	Cat C9
DC General Health Campus, Building 15	One (1) 25 kWe Generac emergency generator set with a 51 bhp diesel fired engine	Generac SD025

1. Emissions Limitations

A. Emissions shall not exceed those found in the following table, for the relevant size generator, as measured using the procedures set forth in 40 CFR 89, Subpart E. [40 CFR 60.4205(b), 40 CFR 60.4202(a), and 40 CFR 89.112(a)]

Emission Standards (g/kW-hr)		
Generator Output (kWe)	25	300
Installation Year	2012	2012
Pollutant		
Non-methane hydrocarbons (NMHC) + NO <sub>x</sub>	4.7	4.0
CO	5.0	3.5
PM	0.40	0.20

B. Visible emissions shall not be emitted into the outdoor atmosphere from these generators, except that discharges not exceeding forty percent (40%) opacity (unaveraged) shall be permitted for two (2) minutes in any sixty (60) minute period and for an aggregate of twelve (12) minutes in any twenty-four hour (24 hr.) period during start-up, cleaning, adjustment of combustion controls, or malfunction of the equipment [20 DCMR 606.1].

C. In addition to Condition III(b)(1)(B), exhaust opacity, measured and calculated as set forth in 40 CFR 86, Subpart I, shall not exceed [40 CFR 60.4205(b), 40 CFR 60.4202(a), and 40 CFR 89.113]:

i. 20 percent during the acceleration mode;

- ii. 15 percent during the lugging mode;
- iii. 40 percent during the peaks in either the acceleration or lugging modes. *Note that this condition is streamlined with the requirements of 20 DCMR 606.1.*

D. An emission into the atmosphere of odorous or other air pollutants from any source in any quantity and of any characteristic, and duration which is, or is likely to be injurious to the public health or welfare, or which interferes with the reasonable enjoyment of life or property is prohibited. [20 DCMR 903.1]

2. Operational Limitations

A. Each of the three (3) emergency generators listed above shall not be operated in excess of 500 hours in any given 12 month period. If operation beyond 500 hours is desired, the Permittee shall submit an application to amend this permit to comply with the conditions of 20 DCMR 805 and shall obtain the Department's approval of such application prior to initiating such operation. [20 DCMR 201 and 20 DCMR 805.1(c)]

B. Except as specified in Condition III(b)(2)(C), the emergency generators shall be operated only during emergencies as follows [20 DCMR 201]:

- i. An electrical power outage due to: a failure of the electrical grid; on-site disaster; local equipment failure; or public service emergencies such as flood, fire, natural disaster, or severe weather conditions (e.g. hurricane, tornado, blizzard, etc.);
- ii. When there is a deviation of voltage or frequency from the electrical provider to the premises of 5 percent or more below standard voltage or frequency such that the equipment being supported cannot be safely or effectively operated; or
- iii. When a sudden, unexpected event occurs that, if not immediately attended to, presents a safety or public health hazard, is necessary to protect equipment from damage, or is necessary to avoid imposing an unreasonable financial burden. An emergency includes operations necessitated by non-routine failures of equipment, but it does not include voluntary demand reductions covered by Condition III(b)(2)(F).

C. Each of the emergency generators may be operated for the purpose of maintenance checks and readiness testing, and in non-emergency situations for a period not to exceed one hundred (100) hours per calendar year as specified in Conditions III(b)(2)(C)(i) and (ii) below. Any such operation shall be considered

as part of the 500 hours allowed under Condition III(b)(2)(A) above. [40 CFR 60.4211(f)]

- i. The emergency generators may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. [40 CFR 60.4211(f)(2)(i) and DCMR 201]; and
  - ii. The emergency generators may each be operated for up fifty (50) hours per calendar year in non-emergency situations. Any such operations shall be counted as part of the 100 hours per calendar year for maintenance and testing as provided in Condition III(b)(2)(C). These 50 hours of non-emergency operations per calendar year cannot be used for peak shaving, or as part of any program to supply power to generate income for the facility as part of a financial arrangement with another entity. All operations prohibited under Condition III(b)(2)(F) are also prohibited under this condition. [40 CFR 60.4211(f)(3) and 20 DCMR 201]
- D. The emergency generators shall fire only diesel fuel that contains a maximum sulfur content of 15 parts per million (0.0015 percent by weight) and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [40 CFR 60.4207(b)]
- E. The emergency generators shall be operated and maintained in accordance with the recommendations of the equipment manufacturers. [40 CFR 60.4212(g)(1) and (2) and 20 DCMR 201]
- F. The emergency generator shall not be operated in conjunction with a voluntary demand-reduction program or any other interruptible power supply arrangement with a utility, other market participant, or system operator. [20 DCMR 201]
- G. At all times, including periods of startup, shutdown, and malfunction, the owner shall, to the extent practicable, maintain and operate the units in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [40 CFR 60.4212(g)(1) and (2) and 20 DCMR 201]

3. Monitoring and Testing Requirements:

- A. The Permittee shall monitor the date, time, duration, and reason for the emergency generator startup to ensure compliance with Condition III(b)(2)(A), (B), (C) and (F). [20 DCMR 302.1(c)(1)(B) and 20 DCMR 500.2]
- B. In order to ensure compliance with Condition III(b)(2)(A), the Permittee shall monitor the total hours of operation each month with the use of a properly functioning, non-resettable hour metering device. [40 CFR 60.4209(a) and 40 CFR 60.4214(b)]
- C. The Permittee shall test fuel oil as necessary to show compliance with Conditions III(b)(2)(D) and 4(C) in accordance with appropriate ASTM methods. [20 DCMR 502.6]
- D. The Permittee shall conduct and allow the Department access to conduct tests of air pollution emissions from any source as requested. [20 DCMR 502.1]

4. Record Keeping Requirements:

- A. The following information shall be recorded, initialed, and maintained in a log at the facility for a period not less than five (5) years [20 DCMR 302.1(c)(2)(B) and 20 DCMR 500.8]:
  - i. The date, time, duration, and reason for each start-up of each emergency generator including the following specific information:
    - 1. If the unit is operated due to a deviation in voltage from the utility pursuant to Condition III(b)(2)(B)(ii) this shall be specifically noted;
    - 2. If the unit is operated in non-emergency situations pursuant to Condition III(b)(2)(C), the specific purpose for each operation period must be recorded; and
    - 3. If the unit is operated for emergency purposes, what classified the operation as emergency.
  - ii. The total hours of operation for each month and the cumulative 12-month rolling period shall be calculated and recorded within 15 days of the end of each calendar month for the previous month and the 12-month period ending at the end of that month;
  - iii. The total hours of operation for maintenance checks and readiness pursuant to

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Condition III(b)(2)(C) each month, and totaled for each calendar year by January 15 of each year for the previous calendar year;

- iv. The total hours of operation due to a deviation in voltage from the utility pursuant to Condition III(b)(2)(B)(ii) each calendar year;
  - v. Records of total fuel used in the engine/generator, kept in a 12-month rolling format;
  - vi. Records of the maintenance performed on the unit;
  - vii. Records of the results of any visible emissions monitoring performed; and
  - viii. Records of the occurrence and duration of each malfunction of operation.
  - ix. Records of the actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- B. The Permittee shall maintain a copy of the emergency generator's manufacturer's maintenance and operating recommendations at the facility.
- C. The Permittee shall comply with the requirements of Condition I(d)(2)(B)(ii) to ensure compliance with Condition III(b)(2)(D) of this permit.
- D. For each unit, the owner or operator shall maintain a copy of the EPA Certificate of Conformity at the facility at all times.

**5. Reporting Requirements**

- A. If the Permittee ever operates an emergency generator with an engine size greater than 100 horsepower (hp) for more than 15 hours in a calendar year for the purpose described in Condition III(b)(2)(B)(ii), the Permittee shall thereafter submit annual reports to the U.S. Environmental Protection Agency (EPA) and the Department as specified in Condition III(b)(5)(B). These annual reports shall contain the following information [40 CFR 60.4214(d)]:
- i. Company name and address where the engine is located;
  - ii. Date of report and the beginning and ending dates of the reporting period;
  - iii. Engine site rating and model year;

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- iv. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place;
- v. Hours operated for the purpose specified in Condition III(b)(2)(B)(ii), including the date, start time, and end time for engine operation for the purpose specified in Condition III(b)(2)(B)(ii); and

**B. Reports shall be submitted as follows:**

- i. Reports to the Department shall be submitted to the following address:

Department of Energy and Environment  
Chief, Compliance and Enforcement Branch  
Air Quality Division  
1200 First Street, NE, 5th Floor  
Washington, DC 20002

- ii. Reports to EPA must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA Administrator at the following address:

EPA Region III  
Director, Air Protection Division  
1650 Arch Street  
Philadelphia PA, 19103

- C. The first annual report must cover the calendar year 2015 or the first calendar year thereafter that the unit operated for more than 15 hours for the purpose specified in Condition III(b)(2)(B)(ii). Each annual report must be submitted by March 31 of the calendar year following the year covered by the report.

- c. **Emission Units: Non-NSPS (CI-ICE) Emergency Generators:** Ten (10) diesel emergency standby generators not subject to the New Source Performance Standards (NSPS) are as follows:

Equipment Location	Emission Unit Description	Equipment Model Number
DC General Health Campus, Boiler Plant Bldg. 7	One (1) 625 kWe Marathon Electric Generators Magnapower emergency generator set with an approximately 950 bhp diesel fired engine	81637305
DC General Health Campus,	One (1) 750 kWe Onan by Cummins	KTA38G1

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Equipment Location	Emission Unit Description	Equipment Model Number
ACCC Building	emergency generator set with a 1,135 bhp diesel fired engine	
DC General Health Campus, Building 12	One (1) 51 kWe Kohler by Cummins emergency generator set with an 80 bhp diesel fired engine	4BT-39
DC General Health Campus, Building 14	One (1) 250 kWe Cummins emergency generator set with a 380 bhp diesel fired engine	5588720
DC General Health Campus, OME Building 27	One (1) generator set of unidentified electrical output with a 277 hp diesel fired Cummins engine	E000098287
DC Jail, IYP Courtyard	One (1) 1,500 kWe Cummins emergency generator set with a 2,220 bhp diese fired engine	KTA 50-G9 (S/N 33161608)
DC Jail, North Tunnel	One (1) 540 kWe Kato emergency generator set with a 850 bhp diesel fired engine	Kato 540 SR9D
DC Jail, South Tunnel	One (1) 540 kWe Kato emergency generator set with a 850 bhp diesel fired engine	Kato 540 SR9D
DC Jail, Rooftop	One (1) 1,100 kWe emergency generator set with 1,588 bhp Caterpillar diesel fired engine	CAT 3512 STD / Kato 71854-3
DC Jail, Penthouse	One (1) 540 kWe emergency generator set with an 850 bhp diesel fired engine	S/N 71854-4

1. Emission Limitations:

- A. Visible emissions shall not be emitted into the outdoor atmosphere from these generators and fire pump engines, except that discharges not exceeding forty percent (40%) opacity (unaveraged) shall be permitted for two (2) minutes in any sixty (60) minute period and for an aggregate of twelve (12) minutes in any twenty-four (24) hour period during start-up, cleaning, adjustment of combustion controls, or malfunction of the equipment. [20 DCMR 606.1]
- B. An emission into the atmosphere of odorous or other air pollutants from any source in any quantity and of any characteristic, and duration which is, or is likely to be injurious to the public health or welfare, or which interferes with the reasonable enjoyment of life or property is prohibited. [20 DCMR 903.1]

2. Operational Limitations:

- A. Each of the ten (10) emergency generators listed above shall not be operated in excess of 500 hours in any given 12 month period. If operation beyond 500 hours is desired, the Permittee shall submit an application to amend this permit to comply with the conditions of 20 DCMR 805 and shall obtain the Department's approval of such application prior to initiating such operation. [20 DCMR 201].
- B. Except as specified in Condition III(c)(2)(C), the emergency generators shall be

operated only during emergencies as follows [20 DCMR 201]:

- i. An electrical power outage due to: a failure of the electrical grid; on-site disaster; local equipment failure; or public service emergencies such as flood, fire, natural disaster, or severe weather conditions (e.g. hurricane, tornado, blizzard, etc.);
  - ii. For a period of up to 15 hours per calendar year when there is a deviation of voltage or frequency from the electrical provider to the premises of five percent (5%) or greater below standard voltage or frequency such that the equipment being supported cannot be safely or effectively operated; or
  - iii. When a sudden, unexpected event occurs that, if not immediately attended to, presents a safety or public health hazard, is necessary to protect equipment from damage, or is necessary to avoid imposing an unreasonable financial burden. An emergency includes operations necessitated by non-routine failures of equipment, but it does not include voluntary demand reductions covered by Condition III(c)(2)(F).
- C. Each of the emergency generators may be operated for the purpose of maintenance checks and readiness testing for a period not to exceed one hundred (100) hours per calendar year. Any such operation shall be considered as part of the 500 hours allowed under Condition III(c)(2)(A) above. [20 DCMR 201]
- D. The emergency generators shall fire only diesel fuel which contains a maximum sulfur content of 15 ppm (0.0015 percent by weight) and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [20 DCMR 201]
- E. The emergency generators shall be operated and maintained in accordance with the recommendations of the equipment manufacturers or to industry standards for similar models if manufacturer specifications are unavailable. [20 DCMR 201]
- F. The emergency generators shall not be operated in conjunction with a voluntary demand-reduction program or any other interruptible power supply arrangement with a utility, other market participant, or system operator. [20 DCMR 201]
- G. At all times, including periods of startup, shutdown, and malfunction, the owner shall, to the extent practicable, maintain and operate the emergency generators in a manner consistent with good air pollution control practices for minimizing emissions. Determination of whether acceptable operating procedures are being used will be based on information available to the Department and the EPA Administrator which may include, but is not limited to, monitoring results,

opacity observations, review of operating and maintenance procedures, review of operation and maintenance records, and inspection of the source. [20 DCMR 201]

3. Monitoring and Testing:

- A. The Permittee shall monitor the date, time, duration, and reason for each emergency generator start-up to ensure compliance with Conditions III(c)(2)(A), (B), (C), and (F) of this permit. [20 DCMR 500.2]
- B. In order to ensure compliance with Condition III(c)(2)(A), the Permittee shall monitor the total hours of operation each month with the use of a properly functioning, non-resettable hour metering device or by tracking the sum of the duration of each instance of operation each month. [20 DCMR 302.1(c)(1)(B) and 20 DCMR 500.2]
- C. The Permittee shall monitor and/or test for the sulfur content in diesel fuel/No. 2 fuel oil obtained for use in the generator engines, in accordance with Condition I (d)(2)(B)(ii) to ensure compliance with Condition III(c)(2)(D) of this permit. [20 DCMR 500.2]
- D. The Permittee shall conduct and allow the Department access to conduct tests of air pollution emissions from any source as requested. [20 DCMR 502.1]

4. Record Keeping Requirements:

- A. The following information shall be recorded, initialed, and maintained in a log at the facility for a period not less than five (5) years [20 DCMR 500.8, 20 DCMR 302.1(c)(2)(B)]:
  - i. The date, time, duration, and reason for each start-up of the emergency generator; *(Note that if the unit is operated due to a deviation in voltage from the utility pursuant to Condition III(c)(2)(B)(ii), this shall be specifically noted.)*
  - ii. The total hours of operation for each month and the cumulative 12-month rolling period shall be calculated and recorded within 15 days of the end of each calendar month for the previous month and the 12-month period ending at the end of that month;
  - iii. The total hours of operation for maintenance checks and readiness testing pursuant to Condition III(c)(2)(C) each month, and totaled for each calendar year by January 15 of each year for the previous calendar year.

- iv. The total hours of operation due to a deviation in voltage from the utility pursuant to Condition III(c)(2)(B)(ii) each calendar year, totaled by January 15 of each calendar year for the previous calendar year;
  - v. Records of total fuel used in the engines/generators, kept in a 12-month rolling format;
  - vi. Records of the maintenance performed on each unit [*Note that these records must be sufficient to the Permittee is complying with the requirements of Condition III(d)(2)(E)*];
  - vii. Records of the results of any visible emissions monitoring performed;
  - viii. Records of the occurrence and duration of each malfunction of operation; and
  - ix. Records of the actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunction process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- B. The Permittee shall maintain a copy of the emergency generator's manufacturer's maintenance and operating recommendations at the facility. If such documentation is unavailable, the owner or operator shall maintain documentation of the written maintenance plan consistent with industry standards in accordance with which the unit is being maintained. [20 DCMR 500.2]
- C. The Permittee shall comply with the requirements of Condition I(d)(2)(B)(ii) to ensure compliance with Condition III(c)(2)(D) of this permit.

#### **IV. Miscellaneous/Insignificant Activities**

- a. The Department does not consider the "miscellaneous activities" (also commonly known as "insignificant activities") listed in Condition IV(d) to be significant sources. However, they are subject to the General Permit Requirements (Condition I) and Facility-Wide Permit Requirements (Condition II) of this permit as well as the conditions specified below for each unit type. [See EPA White Paper, Wegman, July 10, 1995]
- b. Emissions from the miscellaneous activities must be reasonably estimated, and the Permittee shall report the estimated emissions, as well as the specifics of the method(s) of estimation, in the annual emission statement required by Condition I(d)(2)(C) of this permit. [20 DCMR 500]
- c. The Permittee shall maintain an inventory of the miscellaneous/insignificant activities

listed in Condition IV of this permit and shall submit a current copy of this inventory to the Department annually with the annual Title V certification report.

- d. The following activities are subject to Condition IV(a), (b), and (c) as well as the conditions specified below (where applicable):
1. Underground fuel oil storage tanks (USTs): USTs located at DC Jail Courtyard and ACCC Building containing diesel fuel.
  2. Above ground fuel oil storage tanks (ASTs); located at DC General Health Campus and the DC Jail. These tanks are associated with diesel fuel storage for operation of emergency generators.
  3. Cooling Towers: Ten (10) Cooling towers that service the chillers for - ACCC Building, Core Building, Building 27 (OME), and the DC Jail.
  4. Fuel burning equipment (as defined in 20 DCMR 199) with heat inputs less than 5 MMBTU per hour and burning natural gas only including, but not limited to, the 2.163 MMBTU/hr Smith cast iron boiler located at Building 27 (OME), shall meet the following requirements:
    - A. Emission Limitations:
      - i. Particulate matter emissions from any unit with heat input rating less than or equal to 3.5 MMBTU/hr shall not exceed 0.13 pounds per MMBTU. This shall include the Building 27 (OME) 2.163 MMBTU/hr Smith cast iron boiler.
      - ii. Particulate matter emissions from each unit with a heat input rating greater than 3.5 MMBTU/hr and less than 5 MMBTU/hr shall determine its particulate matter limit (to the nearest hundredths of a pound per MMBTU) from the following equation [20 DCMR 600.1]:
$$E = 0.17455 \times H^{-0.23522}$$

Where:

E = the allowable emissions in pounds per MMBTU of heat input and  
H = the heat input of the unit in MMBTU/hr
      - iii. The Permittee is deemed to have complied with Conditions IV(d)(4)(A)(i) and (ii) by complying with the operational limits specified in Condition IV(d)(4)(B)(i) and (ii) below, unless other credible evidence of a violation of this limit is identified. [20 DCMR 600.1]

B. Operational Limits:

- i. The equipment shall burn only natural gas. [20 DCMR 201]
- ii. The fuel burning equipment shall be operated at all times in a manner consistent with the manufacturer's specifications for the equipment or to industry standards for such equipment, if such specifications are not available for the specific equipment at the facility. [20 DCMR 201.1]

C. Monitoring and Testing Requirements:

- i. The Department reserves the right to require the Permittee to conduct performance tests on any or all of these units for any reasonable purpose, in accordance with Condition I(a)(6). If such testing is required, the Permittee shall furnish the Department with a written report of the results of such performance tests in accordance with the following requirements [20 DCMR 502]:
  1. One (1) original and one (1) copy of the test protocol shall be submitted to the following address a minimum of thirty (30) days in advance of the proposed test date. The test shall be conducted in accordance with Federal and District requirements.

Chief, Compliance and Enforcement Branch  
Air Quality Division  
1200 First Street NE  
5<sup>th</sup> Floor  
Washington, DC 20002
  2. The test protocol shall be approved by the Department prior to initiating any testing. Upon approval of the test protocol, the Company shall finalize the test date with the assigned inspector in the Permitting and Enforcement Branch. The Department must have the opportunity to observe the test for the results to be considered for acceptance.
  3. The final results of the testing shall be submitted to the Department within sixty (60) days of the test completion. One (1) original and one (1) copy of the test report shall be submitted to the address in Condition IV(d)(4)(C)(i)(1) above.
  4. The final report of the results shall include the emissions test report (including raw data from the test) as well as a summary of the test results and a statement of compliance or non-compliance with permit conditions

to be considered valid. The summary of results and statement of compliance or non-compliance shall contain the following information:

- a. A statement that the owner or operator has reviewed the report from the emissions testing firm and agrees with the findings.
  - b. Permit number(s) and condition(s) which are the basis for the compliance evaluation.
  - c. Summary of results with respect to each permit condition.
  - d. Statements of compliance or non-compliance with each permit condition.
5. The results must demonstrate to the Department's satisfaction that the emission unit is operating in compliance with the applicable regulations and conditions of this permit; if the final report of the test results shows non-compliance the owner or operator shall propose corrective action(s). Failure to demonstrate compliance through the test may result in enforcement action.
- ii. The Permittee shall monitor fuel use to collect data on the quantity of natural gas used to assist with compliance with Condition IV(b).

**D. Record Keeping Requirements:**

- i. The Permittee shall keep records of the results of all emissions testing required for the boilers pursuant to Conditions IV(d)(4)(C)(i) and I(a)(6) in accordance with the requirements specified in Condition I(c).
- ii. The Permittee shall maintain records of the amount of fuel used in the unit each month. Note that where multiple units of this type are served by a single fuel meter, fuel usage may be aggregated where appropriate. These data shall be maintained in a rolling twelve month sum format.
- iii. The Permittee shall maintain a copy of the manufacturer's maintenance and operating recommendations for the units covered by this permit section, at the facility. If such documentation is unavailable, the Permittee shall maintain documentation of the industry standards to which the unit is being maintained.

**E. Reporting Requirements:**

None in addition to those specified in Condition I(d) and IV(b) and (c).

**V. Permit Shield**

No permit shield is granted. [20 DCMR 302.6]

**VI. Compliance Schedule**

- a. The Permittee shall continue to comply with all applicable requirements. [20 DCMR 301.3(h)(3)(A)]
- b. The Permittee shall meet, in a timely manner, all applicable requirements that become effective during the term of this permit, including, but not limited to, any new air quality regulations and any specific compliance schedules adopted in response to any enforcement action taken against the Permittee by the Department or EPA. [20 DCMR 301.3(h)(3)(B)]

