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## 1.0 Emission Units and Active R13, R14, and R19 Permits

### 1.1. Emission Units

| Emission Unit ID                                       | Emission Point ID | Emission Unit Description   | Year Installed | Design Capacity <sup>1</sup>  | Control Device <sup>2</sup>        |
|--|-------------------|---|----------------|-------------------------------|------------------------------------|
| <b>Boiler &amp; Associated Equipment</b>               |                   |   |                |                               |                                    |
| Unit 1   | CS012             | Foster Wheeler, Model #2-85-543   | 1971           | 7020 mmBtu/hr                 | High efficiency ESP, LNB, SCR      |
| Unit 2   | CS012             | Foster Wheeler, Model #2-85-706   | 1972           | 7020 mmBtu/hr                 | High efficiency ESP, LNB, SCR, FGD |
| Unit 3   | AM3               | Babcock & Wilcox, Model # UP-101  | 1973           | 11936 mmBtu/hr                | High efficiency ESP, LNB, SCR, FGD |
| Aux 1  | Aux AM1           | Foster Wheeler, Model #SD-25<br>(Auxiliary Boiler for Unit 1 & Unit 2)  | 1971           | 642 mmBtu/hr                  | NA                                 |
| Aux 3  | Aux AM3           | Babcock & Wilcox, Model # PFI-3134<br>(Auxiliary Boiler for Unit 3)   | 1971           | 600 mmBtu/hr                  | NA                                 |
| <b>Emergency Generators &amp; Associated Equipment</b> |                   |   |                |                               |                                    |
| <u>EG-1</u>  | <u>EG-1</u>       | <u>CAT@ 3516C-HD TA Compression Ignition (CI) Engine</u><br><u>Certificate No. ECPXL78.1NZZ-024</u><br><u>Engine ECPXL78.1NZZ</u> | <u>2014</u>    | <u>3,004- bhp @ 1,800 rpm</u> | <u>None</u>                        |
| <u>EG-2</u>  | <u>EG-2</u>       | <u>CAT@ 3516C-HD TA (CI) Engine</u><br><u>Certificate No. ECPXL78.1NZZ-024</u><br><u>Engine ECPXL78.1NZZ</u>                      | <u>2014</u>    | <u>3,004- bhp @ 1,800 rpm</u> | <u>None</u>                        |
| <u>EG-3</u>  | <u>EG-3</u>       | <u>CAT@ 3516C-HD TA (CI) Engine</u><br><u>Certificate No. ECPXL78.1NZZ-024</u><br><u>Engine ECPXL78.1NZZ</u>                      | <u>2014</u>    | <u>3,004- bhp @ 1,800 rpm</u> | <u>None</u>                        |
| <u>EG-4</u>  | <u>EG-4</u>       | <u>CAT@ 3516C-HD TA (CI) Engine</u><br><u>Certificate No. ECPXL78.1NZZ-024</u><br><u>Engine ECPXL78.1NZZ</u>                      | <u>2014</u>    | <u>3,004- bhp @ 1,800 rpm</u> | <u>None</u>                        |
| <u>EGT01</u>   | <u>EGT01</u>      | <u>Diesel Fuel Storage Tank for EG-1</u>  | <u>2014</u>    | <u>4800 gal</u>               | <u>None</u>                        |
| <u>EGT02</u>   | <u>EGT02</u>      | <u>Diesel Fuel Storage Tank for EG-2</u>  | <u>2014</u>    | <u>4800 gal</u>               | <u>None</u>                        |
| <u>EGT03</u>   | <u>EGT03</u>      | <u>Diesel Fuel Storage Tank for EG-3</u>  | <u>2014</u>    | <u>4800 gal</u>               | <u>None</u>                        |
| <u>EGT04</u>   | <u>EGT04</u>      | <u>Diesel Fuel Storage Tank for EG-4</u>  | <u>2014</u>    | <u>4800 gal</u>               | <u>None</u>                        |

<sup>1</sup> Rated Design Capacity

<sup>2</sup> Control Device/Control System abbreviations: ESP = Electrostatic Precipitators, LNB = Low NOx System, SCR = Selective Catalytic Reduction, FE = Full enclosure, PE = Partial Enclosure, DC = Dust Collector(s), MC = Moisture Content, WS = Wetting Spray, VF = Vent Filter, BVF = Bin Vent Filter, FS = Filter Separator, TC = Telescopic Chute, WES = Wet Extraction System, FGD = Flue Gas Desulfurization

| <b>Permit Number</b> | <b>Date of Issuance</b> |
|----------------------|-------------------------|
| R13-480              | March 8, 1979           |
| R13-2663C            | July 13, 2010           |
| <u>G60-C063</u>      | <u>August 5, 2014</u>   |

- a. The CAIR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§39-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR39, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> Annual allowance to or from the compliance account of the CAIR NO<sub>x</sub> Annual source covered by the permit.  
[45CSR§39-23.2.]
- b. Except as provided in 45CSR§39-23.2, the Secretary will revise the CAIR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30.  
[45CSR§39-24.1.]
- 3.1.15. **CAIR NO<sub>x</sub> Ozone Season Trading Program.** The permittee shall comply with the standard requirements set forth in the attached CAIR Permit Application (see Appendix D) and the CAIR permit requirements set forth in 45CSR40 for each CAIR NO<sub>x</sub> Ozone Season source. The complete CAIR Permit Application shall be the CAIR Permit portion of the Title V permit administered in accordance with 45CSR30.  
[45CSR§§40-6.1.b. and 20.1.]
- a. The CAIR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§40-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR40, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> Ozone Season allowance to or from the compliance account of the CAIR NO<sub>x</sub> Ozone Season source covered by the permit.  
[45CSR§40-23.2.]
- b. Except as provided in 45CSR§40-23.2, the Secretary will revise the CAIR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30.  
[45CSR§40-24.1.]
- 3.1.16. **CAIR SO<sub>2</sub> Trading Program.** The permittee shall comply with the standard requirements set forth in the attached CAIR Permit Application (see Appendix D) and the CAIR permit requirements set forth in 45CSR41 for each CAIR SO<sub>2</sub> source. The complete CAIR Permit Application shall be the CAIR Permit portion of the Title V permit administered in accordance with 45CSR30.  
[45CSR§§41-6.1.b. and 20.1.]
- a. The CAIR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§41-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR41, every allocation, transfer, or deduction of a CAIR SO<sub>2</sub> allowance to or from the compliance account of the CAIR SO<sub>2</sub> source covered by the permit.  
[45CSR§41-23.2.]
- b. Except as provided in 45CSR§41-23.2, the Secretary will revise the CAIR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30.  
[45CSR§41-24.1.]
- ~~3.1.17. When emissions on an annual basis of one or more of the greenhouse gases listed below are greater than the *de minimis* amounts listed below, all greenhouse gases emitted above the *de minimis* amounts shall be reported to the Secretary under 45CSR§42-4. (see Section 3.5.):~~

| <b>Greenhouse Gas Compound</b> | <b>tons/year</b> |
|--------------------------------|------------------|
| <b>carbon dioxide</b>          | <b>10,000</b>    |
| <b>methane</b>                 | <b>476</b>       |
| <b>nitrous oxide</b>           | <b>32.6</b>      |

| <b>Greenhouse-Gas-Compound</b> | <b>tons/year</b> |
|--------------------------------|------------------|
| <b>hydrofluorocarbons</b>      | <b>0.855</b>     |
| <b>perfluorocarbons</b>        | <b>1.09</b>      |
| <b>sulfur hexafluoride</b>     | <b>0.42</b>      |

~~[45CSR§42-3.1., State-Enforceable-only.]~~

### **3.2. Monitoring Requirements**

3.2.1. N/A

### **3.3. Testing Requirements**

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15), 45CSR2, 45CSR10 and 45CSR13]

### 3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
- The date, place as defined in this permit and time of sampling or measurements;
  - The date(s) analyses were performed;
  - The company or entity that performed the analyses;
  - The analytical techniques or methods used;
  - The results of the analyses; and
  - The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A., R13-2663, 4.4.1., General Permit G60-C §7.3.2., G60-C063 General Permit Registration]

- 3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

[45CSR§30-5.1.c.2.B.; 45CSR13, R13-2663, 3.4.1.; General Permit G60-C §3.5.1., G60-C063 General Permit Registration]

- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.  
[45CSR§30-5.1.c. State-Enforceable only.]

- 3.4.4. The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures applied at the facility. The permittee shall inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly (*except for fly ash, see permit condition 3.1.11.*) from October 1 through April 30, to ensure that they are operated as necessary and maintained in good working order. The permittee shall maintain records of all scheduled and non-scheduled maintenance and shall state any maintenance or corrective actions taken as a result of the weekly and/or monthly inspections, the times the fugitive dust control system(s) were inoperable and any corrective actions taken.

[45CSR13, R13-2663, 4.4.4., Consent Order CO-R2-E-2005-2 §III.4.]

- 3.4.5. The permittee shall properly document any fugitive fly ash emissions not being minimized as discovered through the implementation of Paragraph III.2 of Consent Order CO-R2-E-2005-2 (*permit condition 3.1.11.*), and repair such problems as soon as reasonably and safely possible. The permittee at a minimum shall maintain

3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.  
**[45CSR§30-4.3.h.1.B.]**

~~3.5.10. **Greenhouse Gas Reporting Requirements.** When applicable, as determined in permit section 3.1, greenhouse gas emissions shall be reported pursuant to 45CSR§42-4, including the following:~~

~~a. In accordance with a reporting cycle provided by the Secretary, affected sources shall report to the Secretary the quantity of all greenhouse gases emitted above *de minimis* amounts in the years specified by the Secretary.~~

~~**[45CSR§42-4.1, State Enforceable only.]**~~

~~b. Affected sources shall only be required to report annual quantities of anthropogenic non-mobile source greenhouse gases emitted at the stationary source, and shall not be required to report biogenic emissions of greenhouse gases.~~

~~**[45CSR§42-4.2, State Enforceable only.]**~~

~~c. Reports of greenhouse gas emissions submitted to the Secretary under 45CSR§42-4, shall be signed by a responsible official and shall include the following certification statement: "I, the undersigned, hereby certify that the data transmitted to the West Virginia Department of Environmental Protection is true, accurate, and complete, based upon information and belief formed after reasonable inquiry.~~

~~**[45CSR§42-4.5, State Enforceable only.]**~~

### 3.6. Compliance Plan

3.6.1. NA

### 3.7. Permit Shield

3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.

|                |  |
|----------------|--|
| <b>45CSR5</b>  | <i>To Prevent And Control Air Pollution From The Operation Of Coal Preparation Plants, Coal Handling Operations And Coal Refuse Disposal Areas:</i> Pursuant to 45CSR5, if 45CSR2 is applicable to the facility, then the facility is exempt from 45CSR5. 45CSR2 is applicable to the facility.              |
| <b>45CSR17</b> | <i>To Prevent And Control Particulate Matter Air Pollution From Materials Handling, Preparation, Storage And Other Sources Of Fugitive Particulate Matter:</i> Pursuant to 45CSR17, if 45CSR2 is applicable to the facility, then the facility is exempt from 45CSR17. 45CSR2 is applicable to the facility. |

|  |   |
|--|---|
| <b>40 C.F.R. 60 Subpart D</b>            | <i>Standards of Performance for Fossil-Fuel-Fired Steam Generators for which Construction is Commenced After August 17, 1971:</i> The fossil-fuel-fired steam generators potentially affected by this rule have not commenced construction or modification after August 17, 1971.   |
| <b>40 C.F.R. 60 Subpart Da</b>           | <i>Standards of Performance for Electric Utility Steam Generating Units for which Construction is Commenced After September 18, 1978:</i> The electric utility steam generating units potentially affected by this rule have not commenced construction or modification after September 18, 1978.   |
| <b>40 C.F.R. 60 Subpart K</b>            | <i>Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 18, 1978:</i> The facility does not include storage vessels that are used to store petroleum liquids (as defined in 40 CFR 60.111(b)) and that have a storage capacity greater than 40,000 gallons for which construction, reconstruction or modification was commenced after June 11, 1973 and prior to May 19, 1978.              |
| <b>40 C.F.R. 60 Subpart Ka</b>           | <i>Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978 and Prior to July 23, 1984:</i> The facility does not include storage vessels that are used to store petroleum liquids (as defined in 40 CFR 60.111a(b)) and that have a storage capacity greater than 40,000 gallons for which construction, reconstruction or modification was commenced after May 18, 1978 and prior to July 23, 1984.              |
| <b>40 C.F.R. 60 Subpart Kb</b>           | <i>Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984:</i> Storage vessels potentially affected by this rule are exempted because they contain liquids with a maximum true vapor pressure of less than 3.5 kPa, have a storage capacity of less than 40 cubic meters, or have not commenced construction, reconstruction or modification after July 23, 1984 |
| <b>40 C.F.R. 60 Subpart Y</b>            | <i>Standards of Performance for Coal Preparation Plants:</i> The coal handling equipment potentially affected by this rule, except for the two crushers "CR-70E" and "CR-70W," has not been constructed or modified after October 24, 1974. The Putnam Terminal coal handling equipment was constructed after October 24, 1974 but does not prepare coal by any of the processes listed in 40 CFR §60.251(a) and therefore is not defined as a "coal preparation plant."  |
| <b>40 C.F.R. 63 Subpart Q</b>            | <i>National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers:</i> This facility does not include industrial process cooling towers that have operated with chromium-based water treatment chemicals on or after September 8, 1994.   |
| <del><b>40-CFR-63 Subpart ZZZZ</b></del> | <del><i>National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:</i> The engine driven fire pumps (EDFP-Unit1, EDFP-Unit2, &amp; EDFP-Unit3) are existing emergency stationary RICE and therefore are not subject to the requirements of this subpart pursuant to 40 CFR §63.6590(b)(3).</del>  |

**6.0 Source-Specific Requirements [Black Start Emergency Generators (EG-1, EG-2, EG-3, EG-4)]**

The compression ignition engines EG-1, EG-2, EG-3 and EG-4 are registered under Class II General Permit G60-C with registration G60-C063 and are subject to the following:

**6.1. Limitations and Standards**

*Note: The term "this subpart" used in this permit section shall mean 40 CFR 60 Subpart IIII*

**6.1.1. The reciprocating internal combustion engines listed in the General Permit Registration application shall be operated and maintained in accordance with the manufacturer's recommendations and specifications and in a manner consistent with good operating practices.**  
**[45CSR13, General Permit G60-C §5.1.1., G60-C063 General Permit Registration]**

**6.1.2. Emission Limitations.** The registrant shall not cause, suffer, allow or permit emissions of VOC, NO<sub>x</sub>, and CO, from any registered reciprocating internal combustion engine to exceed the potential to emit (pounds per hour and tons per year) listed in the General Permit Registration.

| Source ID#          | Nitrogen Oxides     |                    | Carbon Monoxide    |                    | Volatile Organic Compounds |                    |
|---------------------|---------------------|--------------------|--------------------|--------------------|----------------------------|--------------------|
|                     | lb/hr               | ton/yr             | lb/hr              | ton/yr             | lb/hr                      | ton/yr             |
| <u>EG-1</u>         | <u>36.4</u>         | <u>9.1</u>         | <u>4.85</u>        | <u>1.21</u>        | <u>1.18</u>                | <u>0.30</u>        |
| <u>EG-2</u>         | <u>36.4</u>         | <u>9.1</u>         | <u>4.85</u>        | <u>1.21</u>        | <u>1.18</u>                | <u>0.30</u>        |
| <u>EG-3</u>         | <u>36.4</u>         | <u>9.1</u>         | <u>4.85</u>        | <u>1.21</u>        | <u>1.18</u>                | <u>0.30</u>        |
| <u>EG-4</u>         | <u>36.4</u>         | <u>9.1</u>         | <u>4.85</u>        | <u>1.21</u>        | <u>1.18</u>                | <u>0.30</u>        |
| <b><u>TOTAL</u></b> | <b><u>145.6</u></b> | <b><u>36.4</u></b> | <b><u>19.4</u></b> | <b><u>4.84</u></b> | <b><u>4.72</u></b>         | <b><u>0.12</u></b> |

**[45CSR13, General Permit G60-C §§5.1.2. & 7.1.2., G60-C063 General Permit Registration]**

**6.1.3. Maximum Fuel Consumption Limitation.** The maximum fuel consumption for any registered reciprocating internal combustion engine listed in the General Permit Registration application shall not exceed the fuel consumption recorded with registrant's Class II General Permit Registration Application without effecting a modification or administrative update. Compliance with the Maximum Yearly Fuel Consumption Limitation shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the fuel consumption at any given time during the previous twelve consecutive calendar months.  
**[45CSR13, General Permit G60-C §5.1.3., G60-C063 General Permit Registration]**

**6.1.4. Maximum Yearly Operation Limitation.** The maximum yearly hours of operation for any emergency generator listed in the General Permit Registration application shall not exceed 500 hours per year. Compliance with the Maximum Yearly Operation Limitation shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the hours of operation at any given time during the previous twelve consecutive calendar months.  
**[45CSR13, General Permit G60-C §7.1.1., G60-C063 General Permit Registration]**

**6.1.5. Recycled or Used Oil**

**a. The registrant shall not receive, store, burn or fire any recycled or used oil in the emergency generator registered herein (i.e., G60-C063) which is considered a hazardous waste or does not meet the used oil**

specifications below (40 C.F.R. 279.11, Table 1). The burning of used or recycled oil which does not meet these specifications shall constitute a violation of 45CSR25, 33CSR20 and the requirements, provisions, standards and conditions of this Class II General Permit (i.e., G60-C).

| <u>Constituent or Property</u> | <u>Maximum Allowable Specification</u> |
|--------------------------------|--|
| <u>Arsenic</u>                 | <u>5.0 ppm</u>                         |
| <u>Cadmium</u>                 | <u>2.0 ppm</u>                         |
| <u>Chromium</u>                | <u>10.0 ppm</u>                        |
| <u>Lead</u>                    | <u>100.0 ppm</u>                       |
| <u>PCBs</u>                    | <u>2.0 ppm</u>                         |
| <u>Total Halogen</u>           | <u>4000.0 ppm maximum</u>              |
| <u>Mercury</u>                 | <u>0.20 ppm</u>                        |
| <u>Flash Point</u>             | <u>100.0 °F minimum</u>                |

- b. Recycled or used oil with a Total Halogen content greater than 1000.0 ppm is presumed to be a hazardous waste under the rebuttable presumption provided in 40 C.F.R. 279.10(b)(1)(ii). Therefore, the registrant may receive, store and burn recycled or used oil exceeding 1000.0 ppm Total Halogen (but less than 4000.0 ppm maximum) only if the supplier or marketer has demonstrated that the recycled or used oil is not and does not contain hazardous waste.

**[45CSR13, General Permit G60-C §7.1.3., G60-C063 General Permit Registration]**

**6.1.6. Storage Tanks**

- a. The content, dimensions, and an analysis showing the capacity of all storage tanks shall be recorded on the Emergency generator Storage Tank Data Sheet in the registrant's Class II General Permit registration;
- b. Petroleum liquid storage tank volume shall not exceed 151 m<sup>3</sup> (or 39,889 gallons) capacity and maximum true vapor pressure shall not exceed 15.0 kPa (2.17 psia) for petroleum liquid storage tanks greater than 75 m<sup>3</sup> (19,812 gallon) capacity; and
- c. The registrant shall inform the Secretary of any change in the number of storage tanks or capacities. The registrant may exchange storage tanks of similar volume as required.

**[45CSR13, General Permit G60-C §7.1.4., G60-C063 General Permit Registration]**

- 6.1.7. Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.**

**[45CSR16; 40 CFR §60.4205(b); 45CSR13, General Permit G60-C §7.1.6., G60-C063 General Permit Registration]**

- 6.1.8. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §60.4204 and §60.4205 according to the manufacturer's written instructions or**

procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

[45CSR16; 40 CFR §60.4206; 45CSR13, General Permit G60-C §7.1.9., G60-C063 General Permit Registration]

6.1.9. Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.

[45CSR16; 40 CFR §60.4207(b); 45CSR13, General Permit G60-C §7.1.11., G60-C063 General Permit Registration]

6.1.10. If you are an owner or operator, you must meet the monitoring requirements specified in §60.4211.

[45CSR16; 40 CFR §60.4209; 45CSR13, General Permit G60-C §7.1.18., G60-C063 General Permit Registration]

6.1.11. If you are an owner or operator and must comply with the emission standards specified in this subpart, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

[45CSR16; 40 CFR §60.4211(a); 45CSR13, General Permit G60-C §7.1.21., G60-C063 General Permit Registration]

6.1.12. If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's specifications.

[45CSR16; 40 CFR §60.4211(c); 45CSR13, General Permit G60-C §7.1.23., G60-C063 General Permit Registration]

6.1.13. The following requirements are taken verbatim (including paragraph numbering) from 40 CFR 60 Subpart III, §60.4211(f):

(f) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

- (2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
- (i) Emergency stationary ICE may be operated for 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. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
- (ii) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
- (iii) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
- (i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
- (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
- (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
- (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
- (D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[45CSR16; 40 CFR §60.4211(f); 45CSR13, General Permit G60-C §7.1.25., G60-C063 General Permit Registration]

## **6.2. Monitoring Requirements**

6.2.1. Reserved

## **6.3. Testing Requirements**

6.3.1. See Facility-Wide Testing Requirements Condition 3.3.1.

## **6.4. Recordkeeping Requirements**

6.4.1. To demonstrate compliance with sections 6.1.1, 6.1.2, and 6.1.3, the registrant shall maintain records of the amount and type of fuel consumed in each engine and the hours of operation of each engine. Said records shall be maintained on site or in a readily accessible off-site location maintained by the registrant for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official. [45CSR13, General Permit G60-C §5.4.1., G60-C063 General Permit Registration]

6.4.2. For the purpose of determining compliance with the Maximum Yearly Operation Limitation, a person designated by a Responsible Official or Authorized Representative shall maintain records of hours of operation utilizing copies of Attachment A - Monthly Hours of Operation Record (or a similar form containing the same information); [45CSR13, General Permit G60-C §7.3.1.a., G60-C063 General Permit Registration]

6.4.3. For the purpose of determining compliance with the Fuel Type Limitation, a person designated by a Responsible Official or Authorized Representative shall maintain records of quantity and type of fuel burned. [45CSR13, General Permit G60-C §7.3.1.b., G60-C063 General Permit Registration]

6.4.4. For the purpose of determining compliance with the Regulated Pollutant Limitation for SO<sub>2</sub>, a person designated by a Responsible Official or Authorized Representative shall maintain records of the maximum sulfur content on a per-shipment basis for fuel oil, recycled or used oil. [45CSR13, General Permit G60-C §7.3.1.c., G60-C063 General Permit Registration]

6.4.5. The records of conditions 6.4.2, 6.4.3, and 6.4.4, shall be maintained for a period of five (5) years on site or in a readily accessible off-site location maintained by the registrant. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official. [45CSR13, General Permit G60-C §§7.3.1.d. and 7.3.4., G60-C063 General Permit Registration]

- 6.4.6. The registrant shall maintain maintenance records relating to failure and/or repair of emergency generator equipment. In the event of equipment or system failure, these records shall document the registrant's effort to maintain proper and effective operation of such equipment and/or systems;

Said records shall be maintained for a period of five (5) years on site or in a readily accessible offsite location maintained by the registrant. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, General Permit G60-C §§7.3.3, and 7.3.4., G60-C063 General Permit Registration]

## **6.5. Reporting Requirements**

- 6.5.1. See Facility-Wide Reporting Requirements Section 3.5.  
[45CSR13, General Permit G60-C §5.5.1., G60-C063 General Permit Registration]
- 6.5.2. Any application form, report, or compliance certification required by this General Permit to be submitted to the Division of Air Quality and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.  
[45CSR13, General Permit G60-C §7.3.6, G60-C063 General Permit Registration]
- 6.5.3. If you are required to submit an Initial Notification but are otherwise not affected by the requirements of 40 C.F.R. 63 Subpart ZZZZ, in accordance with 40 C.F.R. §63.6590(b), your notification should include the information in 40 C.F.R. §§63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).

The notification shall be submitted to the Administrator in writing within 120 calendar days after the initial startup of the source.

[45CSR34; 40 CFR §§63.6590(b)(1), 63.6590(b)(1)(i), and 63.6645(f); 40 CFR §63.9(b)(2)]

## **6.6. Compliance Plan**

- 6.6.1. N/A

**ATTACHMENT A**

**Monthly Hours of Operation Record**  
**(G60-C)**

**ATTACHMENT A**  
**MONTHLY HOURS OF OPERATION RECORD**

Facility Name:  
Registration No.:  
Year:

| <u>Month</u> | <u>Monthly Hours of Operation</u> | <u>12 Month Total Hours of Operation</u> | <u>Fuel Usage (gal or ft<sup>3</sup>)</u> | <u>Initials</u> |
|--------------|-----------------------------------|--|---|-----------------|
| January      |                                   |  |   |                 |
| February     |                                   |  |   |                 |
| March        |                                   |  |   |                 |
| April        |                                   |  |   |                 |
| May          |                                   |  |   |                 |
| June         |                                   |  |   |                 |
| July         |                                   |  |   |                 |
| August       |                                   |  |   |                 |
| September    |                                   |  |   |                 |
| October      |                                   |  |   |                 |
| November     |                                   |  |   |                 |
| December     |                                   |  |   |                 |
| <b>TOTAL</b> |                                   |  |   |                 |

Note: After entering the required information, each entry shall be initialed by a person designated by a Responsible Official.