



S.C. Department of Health and  
Environmental Control

## **Bureau of Air Quality Synthetic Minor Construction Permit**

**Envision AESC Florence, LLC  
1330 Estate Road  
Florence, South Carolina 29506  
Florence County**

In accordance with the provisions of the Pollution Control Act, Sections 48-1-50(5), 48-1-100(A), and 48-1-110(a), the 1976 Code of Laws of South Carolina, as amended, and South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards, the Bureau of Air Quality authorizes the construction of this facility and the equipment specified herein in accordance with the plans, specifications, and other information submitted in the construction permit application received on April 05, 2023, as amended. All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction permit may be grounds for permit revocation.

The construction and subsequent operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

**Permit Number: CP-50000065 v1.0**  
**Agency Air Number: 1040-0174**

**Issue Date: October 11, 2023**

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**Steve McCaslin, P. E., Director  
Air Permitting Division  
Bureau of Air Quality**

| <b>RECORD OF REVISIONS</b> |                               |
|----------------------------|-------------------------------|
| <b>Date</b>                | <b>Description of Changes</b> |
|                            |                               |

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|---|
| <b>A. PROJECT DESCRIPTION, EQUIPMENT, AND CONTROL DEVICE(S)</b>   |
| <p>Permission is hereby granted to construct a lithium-ion battery manufacturing facility in Florence, South Carolina. The project will be separated into two separate phases where two identical manufacturing lines will be constructed. Phase 1 will be completed on the west side of the property and phase 2 will be on the east side of the property. The facility, once fully constructed, will be able to produce up to 36,000 battery cells per hour.</p> <p>The facility is establishing synthetic minor limits to avoid Title V operating permit requirements.</p> |

| <b>A.1 EQUIPMENT</b> |   |                          |                          |
|----------------------|---|--------------------------|--------------------------|
| <b>Equipment ID</b>  | <b>Equipment Description</b>              | <b>Control Device ID</b> | <b>Emission Point ID</b> |
| EU1 - EU6            | Electrode Manufacturing Process (Phase 1) | ECD1                     | E13                      |
| EU7 - EU12           | Electrode Preparation (Phase 1)           | ECD2                     | Inside Building          |
| EU13 - EU18          | Electrode Preparation (Phase 1)           | ECD3                     | Inside Building          |
| EU19 - EU36          | Notching (Phase 1)                        | ECD4                     | Inside Building          |
| EU37 - EU54          | Notching (Phase 1)                        | ECD5                     | Inside Building          |
| EU181 - EU207        | Roll Baking (Phase 1)                     | ECD6                     | E25                      |
| EU208 - EU243        | Roll Baking (Phase 1)                     | ECD7                     | E25                      |
| EU55 - EU81          | Winding (Phase 1)                         | ECD8                     | Inside Building          |
| EU82 - EU84          | JR Prepare Dispose (Phase 1)              | ECD9                     | Inside Building          |
| EU85 - EU90          | Tab Forming (Phase 1)                     | ECD10                    | Inside Building          |
| EU91 - EU114         | Disk Welding (Phase 1)                    | ECD11                    | Inside Building          |
| EU115 - EU138        | Welding (Phase 1)                         | ECD12                    | Inside Building          |
| EU139 - EU144        | Can & Disk Welding (Phase 1)              | ECD13                    | Inside Building          |
| EU145 - EU150        | Swage/Grooving (Phase 1)                  | ECD14                    | Inside Building          |
| EU151 - EU156        | Formation (Phase 1)                       | ECD15                    | E24                      |
| EU157 - EU174        | Injection (Phase 1)                       | ECD16                    | E26                      |

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| <b>A.1 EQUIPMENT</b> |  |                          |                          |
|----------------------|--|--------------------------|--------------------------|
| <b>Equipment ID</b>  | <b>Equipment Description</b>   | <b>Control Device ID</b> | <b>Emission Point ID</b> |
| EU175 –<br>EU180     | Injection (Phase 1)  | ECD17                    | E27                      |
| EU244 –<br>EU255     | Formation (Phase 1)  | ECD18                    | E29                      |
| EU533 –<br>EU536     | Four Central Utility Heaters (Phase 1)<br>Rated Heat Capacity: 0.6 Million BTU/hr each<br>Fuels: Natural Gas                 | None                     | 59W                      |
| EU472 –<br>EU479     | Eight Building Air Handling and Heat Boilers (Phase 1)<br>Rated Heat Capacity: 6.0 Million BTU/hr each<br>Fuels: Natural Gas | None                     | 50W                      |
| EU548 –<br>EU552     | Five Process Boilers (Phase 1)<br>Rated Heat Capacity: 39.7 Million BTU/hr each<br>Fuels: Natural Gas                        | None                     | 51W                      |
| EU558                | NMP Storage Tanks (Phase 1)<br>Twelve Tanks – 5,284 gallons per tank   | None                     | ENMP1 –<br>ENMP12        |
| EU559                | Electrolyte Storage Tanks (Facility Wide)<br>Twelve Tanks – 4,700 gallons per tank   | None                     | EL12 – EL24              |
| EU560                | 90 Dehumidifier Heaters (Facility Wide)<br>Rated Heat Capacity: 0.8 MMBtu/hr each<br>Fuels: Natural Gas                      | None                     | Inside<br>Building       |
| GU1 – GU6            | Electrode Manufacturing Process (Phase 2)  | GCD1                     | G13                      |
| GU7 – GU12           | Electrode Preparation (Phase 2)  | GCD2                     | Inside<br>Building       |
| GU13 –<br>GU18       | Electrode Preparation (Phase 2)  | GCD3                     | Inside<br>Building       |
| GU19 –<br>GU36       | Notching (Phase 2)   | GCD4                     | Inside<br>Building       |
| GU37 –<br>GU54       | Notching (Phase 2)   | GCD5                     | Inside<br>Building       |
| GU181 –<br>GU207     | Roll Baking (Phase 2)  | GCD6                     | G25                      |
| GU208 –<br>GU243     | Roll Baking (Phase 2)  | GCD7                     | G25                      |
| GU55 –<br>GU81       | Winding (Phase 2)  | GCD8                     | Inside<br>Building       |
| GU82 –<br>GU84       | JR Prepare Dispose (Phase 2)   | GCD9                     | Inside<br>Building       |
| GU85 –<br>GU90       | Tab Forming (Phase 2)  | GCD10                    | Inside<br>Building       |
| GU91 –<br>GU114      | Disk Welding (Phase 2)   | GCD11                    | Inside<br>Building       |

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| <b>A.1 EQUIPMENT</b> |  |                          |                          |
|----------------------|--|--------------------------|--------------------------|
| <b>Equipment ID</b>  | <b>Equipment Description</b>   | <b>Control Device ID</b> | <b>Emission Point ID</b> |
| GU115 – GU138        | Welding (Phase 2)  | GCD12                    | Inside Building          |
| GU139 – GU144        | Can & Disk Welding (Phase 2)   | GCD13                    | Inside Building          |
| GU145 – GU150        | Swage/Grooving (Phase 2)   | GCD14                    | Inside Building          |
| GU151 – GU156        | Formation (Phase 2)  | GCD15                    | G24                      |
| GU157 – GU174        | Injection (Phase 2)  | GCD16                    | G26                      |
| GU175 – GU180        | Injection (Phase 2)  | GCD17                    | G27                      |
| GU244 – GU255        | Formation (Phase 2)  | GCD18                    | G29                      |
| GU553 – GU557        | Five Process Boilers (Phase 2)<br>Rated Heat Capacity: 39.7 Million BTU/hr each<br>Fuels: Natural Gas                        | None                     | 51E                      |
| GU480 – GU587        | Eight Building Air Handling and Heat Boilers (Phase 2)<br>Rated Heat Capacity: 6.0 Million BTU/hr each<br>Fuels: Natural Gas | None                     | 50E                      |
| GU537 – GU542        | Four Central Utility Heaters (Phase 2)<br>Rated Heat Capacity: 0.6 Million BTU/hr each<br>Fuels: Natural Gas                 | None                     | 59E                      |
| GU558                | NMP Storage Tanks (Phase 1)<br>Twelve Tanks – 5,284 gallons per tank   | None                     | GNMP1 – GNMP12           |

| <b>A.2 CONTROL DEVICES</b> |   |   |                          |
|----------------------------|---|---|--------------------------|
| <b>Control Device ID</b>   | <b>Control Device Description</b>                                 | <b>Pollutant(s) Controlled</b>                      | <b>Emission Point ID</b> |
| ECD1                       | Carbon Absorption with Zeolite Finishing – Control Efficiency 99% | VOCs and HAPs                                       | E13                      |
| ECD2                       | HEPA Filter – Control Efficiency 99.995%                          | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD3                       | HEPA Filter – Control Efficiency 99.995%                          | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD4                       | HEPA Filter – Control Efficiency 99.97%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD5                       | HEPA Filter – Control Efficiency 99.97%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |

| <b>A.2 CONTROL DEVICES</b> |   |   |                          |
|----------------------------|---|---|--------------------------|
| <b>Control Device ID</b>   | <b>Control Device Description</b>                                 | <b>Pollutant(s) Controlled</b>                      | <b>Emission Point ID</b> |
| ECD6                       | Carbon Absorption – Control Efficiency 90%                        | VOCs and HAPs                                       | E25                      |
| ECD7                       | Carbon Absorption – Control Efficiency 90%                        | VOCs and HAPs                                       | E25                      |
| ECD8                       | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD9                       | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD10                      | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD11                      | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD12                      | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD13                      | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD14                      | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| ECD15                      | Carbon Absorption – Control Efficiency 90%                        | VOCs and HAPs                                       | E24                      |
| ECD16                      | Carbon Absorption – Control Efficiency 90%                        | VOCs and HAPs                                       | E26                      |
| ECD17                      | Carbon Absorption – Control Efficiency 90%                        | VOCs and HAPs                                       | E27                      |
| ECD18                      | Carbon Absorption – Control Efficiency 90%                        | VOCs and HAPs                                       | E29                      |
| GCD1                       | Carbon Absorption with Zeolite Finishing – Control Efficiency 99% | VOCs and HAPs                                       | G13                      |
| GCD2                       | HEPA Filter – Control Efficiency 99.995%                          | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD3                       | HEPA Filter – Control Efficiency 99.995%                          | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD4                       | HEPA Filter – Control Efficiency 99.97%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD5                       | HEPA Filter – Control Efficiency 99.97%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD6                       | Carbon Absorption – Control Efficiency 90%                        | VOCs and HAPs                                       | G25                      |
| GCD7                       | Carbon Absorption – Control Efficiency 90%                        | VOCs and HAPs                                       | G25                      |
| GCD8                       | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD9                       | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD10                      | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD11                      | HEPA Filter – Control Efficiency 99.15%                           | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |

| <b>A.2 CONTROL DEVICES</b> |  |   |                          |
|----------------------------|--|---|--------------------------|
| <b>Control Device ID</b>   | <b>Control Device Description</b>          | <b>Pollutant(s) Controlled</b>                      | <b>Emission Point ID</b> |
| GCD12                      | HEPA Filter – Control Efficiency 99.15%    | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD13                      | HEPA Filter – Control Efficiency 99.15%    | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD14                      | HEPA Filter – Control Efficiency 99.15%    | PM, PM <sub>10</sub> , PM <sub>2.5</sub> , and HAPs | Inside Building          |
| GCD15                      | Carbon Absorption – Control Efficiency 90% | VOCs and HAPs                                       | G24                      |
| GCD16                      | Carbon Absorption – Control Efficiency 90% | VOCs and HAPs                                       | G26                      |
| GCD17                      | Carbon Absorption – Control Efficiency 90% | VOCs and HAPs                                       | G27                      |
| GCD18                      | Carbon Absorption – Control Efficiency 90% | VOCs and HAPs                                       | G29                      |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |  |
|--|--|
| <b>Condition Number</b>                          | <b>Conditions</b>  |
| B.1  | <p><b>Equipment ID:</b> Facility Wide<br/> <b>Control Device ID:</b> Facility Wide</p> <p>(S.C. Regulation 61-62.1, Section II(E)) This facility is a potential major source for PM, PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, SO<sub>2</sub>, CO, Volatile Organic Compound (VOC), and Hazardous Air Pollutant (HAP) emissions. The facility has requested federally enforceable emissions limitations to limit its potential to emit to less than 100.0 tons per year for PM, PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, SO<sub>2</sub>, CO, and Volatile Organic Compound (VOC) emissions, each, and 10.0 tons per year for any single HAP emission and 25.0 tons per year for any combination of HAP emissions to avoid Title V and MACT.</p>   |
| B.2  | <p><b>Equipment ID:</b> Facility Wide<br/> <b>Control Device ID:</b> Facility Wide</p> <p>The owner or operator shall maintain records of all volatile organic compounds (VOC) and hazardous air pollutants (HAP). These records shall include the total amount of each material used, the VOC content in percent by weight of each material, the HAP content in percent by weight of each material, and any other records necessary to determine VOC and HAP emissions. VOC, individual HAP and total HAP emissions shall be calculated monthly, and a twelve-month rolling sum shall be calculated monthly. Facility-wide emission totals must include emissions from exempt activities. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve-month rolling sum shall be less than 100.0 tons for VOC, 10.0 tons for each individual HAP, and 25.0 tons for total HAPs. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually.</p> |
| B.3  | <p><b>Equipment ID:</b> Facility Wide<br/> <b>Control Device ID:</b> Facility Wide</p>   |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |  |
|--|--|
| <b>Condition Number</b>                          | <b>Conditions</b>  |
|  | <p>The owner or operator shall maintain operational records and any other records necessary to determine facility wide PM, PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, SO<sub>2</sub>, and CO emissions. PM, PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, SO<sub>2</sub>, and CO emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total PM, PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, SO<sub>2</sub>, and CO emissions. Facility-wide emission totals must include emissions from exempt activities. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve month rolling sum shall be less than 100.0 tons. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually.</p> <p>An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall only be included in the initial report. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information.</p> |
| B.4  | <p><b>Equipment ID:</b> EU533 – EU536, GU537 – GU542, EU472 – EU479, GU480 – GU587, EU548 – EU552, GU553 – GU557, EU560</p> <p>(S.C. Regulation 61-62.5, Standard No. 1, Section I) The fuel burning source(s) shall not discharge into the ambient air smoke which exceeds opacity of 20%. The owner or operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions.</p>  |
| B.5  | <p><b>Equipment ID:</b> EU533 – EU536, GU537 – GU542, EU472 – EU479, GU480 – GU587, EU548 – EU552, GU553 – GU557, EU560</p> <p>(S.C. Regulation 61-62.5, Standard No. 1, Section II) The maximum allowable discharge of particulate matter resulting from these sources is 0.6 pounds per million BTU input.</p>   |
| B.6  | <p><b>Equipment ID:</b> EU533 – EU536, GU537 – GU542, EU472 – EU479, GU480 – GU587, EU548 – EU552, GU553 – GU557, EU560</p> <p>(S.C. Regulation 61-62.5, Standard No. 1, Section III) The maximum allowable discharge of sulfur dioxide (SO<sub>2</sub>) resulting from these sources is 2.3 pounds per million BTU input.</p>   |
| B.7  | <p><b>Equipment ID:</b> EU533 – EU536, GU537 – GU542, EU472 – EU479, GU480 – GU587, EU548 – EU552, GU553 – GU557, EU560</p> <p>These sources are permitted to burn only Natural Gas as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Department.</p>   |
| B.8  | <p><b>Equipment ID:</b> EU7 – EU12, EU13 – EU18, EU19 – EU36, EU37 – EU54, EU181 – EU207, EU208 – EU243, EU55 – EU81, EU82 – EU84, EU85 – EU90, EU91 – EU114, EU115 – EU138, EU139 – EU144, EU145 – EU150, GU7 – GU12, GU13 – GU36, GU37 – GU54, GU181 – GU207, GU208 – GU243, GU55 – GU81, GU82 – GU84, GU85 – GU90, GU91 – GU114, GU115 – GU138, GU139 – GU144, GU145 – GU150</p> <p><b>Control Device ID:</b> ECD2, ECD3, ECD4, ECD5, ECD8, ECD9, ECD10, ECD11, ECD12, ECD13, ECD14, GCD2, GCD3, GCD4, GCD5, GCD8, GCD9, GCD10, GCD11, GCD12, GCD13, GCD14</p>  |



| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |  |
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| <b>Condition Number</b>                          | <b>Conditions</b>  |
|  | <p>(S.C. Regulation 61-62.5, Standard No. 4, Section VIII) Particulate matter emissions shall be limited to the rate specified by use of the following equations:</p> <p style="padding-left: 40px;">For process weight rates less than or equal to 30 tons per hour<br/> <math>E = (F) 4.10P^{0.67}</math></p> <p style="padding-left: 40px;">For process weight rates greater than 30 tons per hour<br/> <math>E = (F) (55.0P^{0.11} - 40)</math></p> <p style="padding-left: 40px;">Where E = the allowable emission rate in pounds per hour<br/> P = process weight rate in tons per hour<br/> F = effect factor from Table B in S.C. Regulation 61-62.5, Standard No. 4</p> <p>For the purposes of compliance with this condition, the process boundaries are defined as follows:</p> <ul style="list-style-type: none"> <li>• Facility Wide - Max Process Weight Rate 26 ton/hr</li> </ul>   |
| B.9  | <p><b>Equipment ID:</b> EU1 – EU6, EU7 – EU12, EU13 – EU18, EU19 – EU36, EU37 – EU54, EU181 – EU207, EU208 – EU243, EU55 – EU81, EU82 – EU84, EU85 – EU90, EU91 – EU114, EU115 – EU138, EU139 – EU144, EU145 – EU150, EU151 – EU156, EU157 – EU174, EU175 – EU180, EU244 – EU255, EU558, EU559, GU1 – GU6, GU7 – GU12, GU13 – GU36, GU37 – GU54, GU181 – GU207, GU208 – GU243, GU55 – GU81, GU82 – GU84, GU85 – GU90, GU91 – GU114, GU115 – GU138, GU139 – GU144, GU145 – GU150, GU151 – GU156, GU157 – GU174, GU175 – GU180, GU244 – GU255, GU558</p> <p><b>Control Device ID:</b> ECD2, ECD3, ECD4, ECD5, ECD8, ECD9, ECD10, ECD11, ECD12, ECD13, ECD14, GCD2, GCD3, GCD4, GCD5, GCD8, GCD9, GCD10, GCD11, GCD12, GCD13, GCD14</p> <p>(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.</p> |
| B.10   | <p><b>Equipment ID:</b> EU548 – EU552, GU553 – GU557</p> <p>(S.C. Regulation 61-62.5, Standard No. 5.2, Section III)The allowable discharge of NO<sub>x</sub> resulting from these sources is 0.036 pounds per million British thermal units (lb/MMBtu), each.</p>   |
| B.11   | <p><b>Equipment ID:</b> EU548 – EU552, GU553 – GU557</p> <p>(S.C. Regulation 61-62.5, Standard No. 5.2, Section IV) The owner or operator shall perform tune-ups every twenty-four (24) months in accordance with manufacturer’s specifications or with good engineering practices. The first tune-up shall be conducted no more than twenty-four (24) months from start-up of operation for affected new sources. Each subsequent tune-up shall be conducted no more than twenty-four (24) months after the previous tune-up.</p> <p>All tune-up records are required to be maintained on site and available for inspection by the Department for a period of five (5) years from the date generated.</p>   |
| B.12   | <p><b>Equipment ID:</b> EU548 – EU552, GU553 – GU557</p> <p>(S.C. Regulation 61-62.5, Standard No. 5.2, Section IV) The owner or operator shall record monthly the amounts and types of each fuel combusted by the affected sources and maintain these records</p>   |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |  |
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| <b>Condition Number</b>                          | <b>Conditions</b>  |
|  | <p>on site.</p> <p>The owner or operator shall maintain records of the occurrence and duration of any malfunction in the operation of an affected source; any malfunction of the air pollution control equipment; and any periods during which a continuous monitoring system or monitoring device is inoperative.</p>   |
| B.13   | <p><b>Equipment ID:</b> EU548 – EU552, GU553 – GU557</p> <p>These sources are subject to New Source Performance Standards (NSPS), 40 CFR 60 and S.C. Regulation 61-62.60 Subpart A, General Provisions and Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, as applicable. These sources shall comply with all applicable requirements of Subparts A and Dc.</p> <p>40 CFR 60.48c – Reporting and recordkeeping requirements.</p> <p>(a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR 60.7 of this part. This notification shall include:</p> <ul style="list-style-type: none"> <li>(1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.</li> <li>(2) ...</li> <li>(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fueled fired and based on each individual fuel fired.</li> <li>(4) ...</li> </ul> <p>(b) – (f) ...</p> <p>(g)(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.</p> <ul style="list-style-type: none"> <li>(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO<sub>2</sub> standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.</li> <li>(3) ...</li> </ul> <p>(h) ...</p> |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |   |
|--|---|
| <b>Condition Number</b>                          | <b>Conditions</b>   |
|  | <p>(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.</p> <p>(j) ...</p>  |
| B.14   | <p><b>Equipment ID:</b> EU7 – EU12, EU13 – EU18, EU19 – EU36, EU37 – EU54, EU55 -EU81, EU82 – EU84, EU5 – EU90, EU91 – EU114, EU115 – EU138, EU139 – EU144, EU145 – EU150, GU7 – GU12, GU13 – GU18, GU19 – GU36, GU37 – GU54, GU55 – GU81, GU82 – GU84, GU85 – GU90, GU91 – GU114, GU115 – GU138, GU139 – GU144, GU145 – GU150</p> <p><b>Control Device ID:</b> ECD2, ECD3, ECD4, ECD5, ECD8, ECD9, ECD10, ECD11, ECD12, ECD13, ECD14, GCD2, GCD3, GCD4, GCD5, GCD8, GCD9, GCD10, GCD11, GCD12, GCD13, GCD14</p> <p>The owner or operator shall inspect, calibrate, adjust, and maintain continuous monitoring systems, monitoring devices, and gauges in accordance with manufacturer’s specifications or good engineering practices. The owner or operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel.</p> <p>(S.C. Regulation 61-62.1, Section II(J)(1)(d)) Sources required to have continuous emission monitors shall submit reports as specified in applicable parts of the permit, law, regulations, or standards.</p>  |
| B.15   | <p><b>Equipment ID:</b> EU7 – EU12, EU13 – EU18, EU19 – EU36, EU37 – EU54, EU55 -EU81, EU82 – EU84, EU5 – EU90, EU91 – EU114, EU115 – EU138, EU139 – EU144, EU145 – EU150, GU7 – GU12, GU13 – GU18, GU19 – GU36, GU37 – GU54, GU55 – GU81, GU82 – GU84, GU85 – GU90, GU91 – GU114, GU115 – GU138, GU139 – GU144, GU145 – GU150</p> <p><b>Control Device ID:</b> ECD2, ECD3, ECD4, ECD5, ECD8, ECD9, ECD10, ECD11, ECD12, ECD13, ECD14, GCD2, GCD3, GCD4, GCD5, GCD8, GCD9, GCD10, GCD11, GCD12, GCD13, GCD14</p> <p>All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (e.g., pressure drop readings, flow rates, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each occurrence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place.</p> <p>Reports of these occurrences shall be submitted semiannually. If there were no occurrences during the reporting period, then documentation shall be submitted to indicate such. Any alternative method for monitoring control device performance must be preapproved by the Department and shall be incorporated into the permit as set forth in S.C. Regulation 61-62.1 Section II.</p> |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |   |
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| <b>Condition Number</b>                          | <b>Conditions</b>   |
| B.16   | <p><b>Equipment ID:</b> EU7 – EU12, EU13 – EU18, EU19 – EU36, EU37 – EU54, EU55 -EU81, EU82 – EU84, EU5 – EU90, EU91 – EU114, EU115 – EU138, EU139 – EU144, EU145 – EU150, GU7 – GU12, GU13 – GU18, GU19 – GU36, GU37 – GU54, GU55 – GU81, GU82 – GU84, GU85 – GU90, GU91 – GU114, GU115 – GU138, GU139 – GU144, GU145 – GU150</p> <p><b>Control Device ID:</b> ECD2, ECD3, ECD4, ECD5, ECD6, ECD7, ECD8, ECD9, ECD10, ECD11, ECD12, ECD13, ECD14, GCD2, GCD3, GCD4, GCD5, GCD8, GCD9, GCD10, GCD11, GCD12, GCD13, GCD14</p> <p>Operational ranges for the monitored parameters shall be established to ensure proper operation of the pollution control equipment. These operational ranges for the monitored parameters shall be derived from vendor certification, and/ operational history and visual inspections, which demonstrate the proper operation of the equipment. These ranges and supporting documentation (certification from manufacturer, stack test results, 30 days of normal readings, opacity readings, etc.) shall be submitted to the Department within 180 days of startup. Operating ranges may be updated following submittal to the Department.</p>   |
| B.17   | <p><b>Equipment ID:</b> EU7 – EU12, EU13 – EU18, EU19 – EU36, EU37 – EU54, EU55 -EU81, EU82 – EU84, EU5 – EU90, EU91 – EU114, EU115 – EU138, EU139 – EU144, EU145 – EU150, GU7 – GU12, GU13 – GU18, GU19 – GU36, GU37 – GU54, GU55 – GU81, GU82 – GU84, GU85 – GU90, GU91 – GU114, GU115 – GU138, GU139 – GU144, GU145 – GU150</p> <p><b>Control Device ID:</b> ECD2, ECD3, ECD4, ECD5, ECD8, ECD9, ECD10, ECD11, ECD12, ECD13, ECD14, GCD2, GCD3, GCD4, GCD5, GCD8, GCD9, GCD10, GCD11, GCD12, GCD13, GCD14</p> <p>The owner or operator shall install, operate and maintain pressure drop gauges on each filter. Pressure drop readings shall be recorded daily during source operation. Facilities with automated data collection may collect monitoring data on a more frequent basis and calculate the daily average. Readings collected when the source is shutdown or not operating may not be used in the calculation. The owner or operator must get approval from the Department for an increased frequency/averaging plan prior to using averaging for parametric monitoring. The owner or operator shall continue to record daily the calculated monitoring averages using the approved increased frequency/averaging plan unless prior approval is obtained from the Department for changing the plan.</p> <p>Operation and maintenance checks shall be made on at least a weekly basis for filter cleaning systems, dust collection hoppers, and conveying systems for proper operation. The checks and any corrective actions shall be documented and kept on-site. The filter shall be in place and operational whenever processes controlled by it are running, except during periods of filter malfunction or mechanical failure.</p> |
| B.18   | <p><b>Equipment ID:</b> EU1 – EU6, GU1 – GU6</p> <p><b>Control Device ID:</b> ECD1, GCD1</p> <p>The owner or operator shall install a carbon adsorption system with zeolite finishing consisting of at least two zeolite wheels that are connected in series. The carbon adsorption system with zeolite finishing shall provide a control efficiency of at least 99%. The last zeolite wheel prior to exhausting to the atmosphere will be considered the polishing zeolite wheel.</p>  |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |  |
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| <b>Condition Number</b>                          | <b>Conditions</b>  |
|  | <p>The owner or operator shall take daily readings from carbon adsorption system with zeolite finishing to determine the control efficiency of carbon system. Samples shall be taken while the processes being controlled are in operation.</p> <p>The VOC sampling and analysis shall be performed using an instrument with a flame ionization detector (FID), or a Department approved alternative detector. The instrument/FID must meet all requirements specified in Section 8.1 of EPA Method 21 (40 CFR 60, Appendix A).</p> <p>Sampling and analysis for VOC breakthrough shall be performed as follows:</p> <ol style="list-style-type: none"> <li>1. Immediately prior to performing sampling, the instrument/FID shall be calibrated with zero and span calibration gas mixtures. Zero gas shall be certified to contain less than 0.1 ppmv total hydrocarbons. Span calibration gas shall be propane at a concentration within <math>\pm 10</math> percent of the expected sampling concentrations and certified by the manufacturer to be <math>\pm 2</math> percent accurate. Calibration error for the zero and span calibration gas checks must be less than <math>\pm 5</math> percent of the span calibration gas value before sampling may be conducted.</li> <li>2. The sampling ports shall be at the inlet to the first zeolite wheel and at the inlet to the polishing zeolite wheel. Sample ports or connections must be designed such that air leakage into the sample port does not occur during sampling.</li> <li>3. During sampling, data recording shall not begin until after two times the instrument response time. The VOC concentration shall be monitored for at least 5 minutes, recording 1-minute averages, during process operation.</li> </ol> <p>Control efficiency shall be defined as the percent reduction from the highest 1-minute average VOC concentration at the upstream sampling port to the highest 1-minute average VOC concentration at the downstream sampling port.</p> <p>When control efficiency is determined to be below 99%, breakthrough has occurred. The zeolite wheel(s) prior to the polishing zeolite wheel shall be replaced. The carbon adsorption system with zeolite finishing's inlet gas stream shall be switched to the polishing zeolite wheel (plus any additional zeolite wheels needed to equal the amount of zeolite wheels to be replaced). A fresh zeolite wheel shall be installed as the new polishing zeolite wheel. Zeolite wheel replacement shall be completed within 288 hours (12 days) of breakthrough detection. Sufficient new zeolite wheels shall be maintained at the site to replace spent zeolite wheels such that replacements can be done in the above specified time frame.</p> <p>Records of the sampling and analysis shall be maintained on site and shall include the following information:</p> <ol style="list-style-type: none"> <li>1. Sample Location, Time, and Date</li> </ol> |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |  |
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| <b>Condition Number</b>                          | <b>Conditions</b>  |
|  | <p>2. Monitoring Results (ppmv)</p> <p>3. Any corrective action taken, including the date and time of that action.</p> <p>All records shall be maintained on site. Reports shall be submitted on a semiannual basis and shall include at least the highest daily 1-minute average from both sampling ports and the daily calculated control efficiency.</p>  |
| B.19   | <p><b>Equipment ID:</b> EU181 – EU207, EU208 – EU243, EU151 – EU156, EU157 – EU174, EU175 – EU180, EU244 – EU255, GU181 – GU207, GU208 – GU243, GU151 – GU156, GU157 – GU174, GU175 – GU180, GU244 – GU255</p> <p><b>Control Device ID:</b> ECD6, ECD7, ECD15, ECD16, ECD17, ECD18, GCD6, GCD7, GCD15, GCD16, GCD17, GCD18</p> <p>The owner or operator shall install a carbon adsorption system consisting of at least two activated carbon beds that are connected in series. The carbon adsorption system shall provide a control efficiency of at least 90%. The last activated carbon bed prior to exhausting to the atmosphere will be considered the polishing activated carbon bed.</p> <p>The owner or operator shall take daily readings from the carbon adsorption system to determine the control efficiency of carbon system. Samples shall be taken while the processes being controlled are in operation.</p> <p>The VOC sampling and analysis shall be performed using an instrument with a flame ionization detector (FID), or a Department approved alternative detector. The instrument/FID must meet all requirements specified in Section 8.1 of EPA Method 21 (40 CFR 60, Appendix A).</p> <p>Sampling and analysis for VOC breakthrough shall be performed as follows:</p> <ol style="list-style-type: none"> <li>1. Immediately prior to performing sampling, the instrument/FID shall be calibrated with zero and span calibration gas mixtures. Zero gas shall be certified to contain less than 0.1 ppmv total hydrocarbons. Span calibration gas shall be propane at a concentration within <math>\pm 10</math> percent of the expected sampling concentrations and certified by the manufacturer to be <math>\pm 2</math> percent accurate. Calibration error for the zero and span calibration gas checks must be less than <math>\pm 5</math> percent of the span calibration gas value before sampling may be conducted.</li> <li>2. The sampling ports shall be at the inlet to the first activated carbon bed and at the inlet to the polishing activated carbon bed. Sample ports or connections must be designed such that air leakage into the sample port does not occur during sampling.</li> <li>3. During sampling, data recording shall not begin until after two times the instrument response time. The VOC concentration shall be monitored for at least 5 minutes, recording 1-minute averages, during process operation.</li> </ol> |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |  |
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| <b>Condition Number</b>                          | <b>Conditions</b>  |
|  | <p>Control efficiency shall be defined as the percent reduction from the highest 1-minute average VOC concentration at the upstream sampling port to the highest 1-minute average VOC concentration at the downstream sampling port.</p> <p>When control efficiency is determined to be below 90%, breakthrough has occurred. The activated carbon bed(s) prior to the polishing activated carbon bed shall be replaced. The carbon adsorption system's inlet gas stream shall be switched to the polishing activated carbon bed (plus any additional activated carbon beds needed to equal the amount of activated carbon beds to be replaced). A fresh activated carbon bed shall be installed as the new polishing activated carbon bed. Activated carbon bed replacement shall be completed within 24 hours of breakthrough detection. Sufficient new activated carbon beds shall be maintained at the site to replace spent activated carbon beds such that replacements can be done in the above specified time frame.</p> <p>Records of the sampling and analysis shall be maintained on site and shall include the following information:</p> <ol style="list-style-type: none"> <li>1. Sample Location, Time, and Date</li> <li>2. Monitoring Results (ppmv)</li> <li>3. Any corrective action taken, including the date and time of that action.</li> </ol> <p>All records shall be maintained on site. Reports shall be submitted on a semiannual basis and shall include at least the highest daily 1-minute average from both sampling ports and the daily calculated control efficiency.</p> |
| B.20   | <p><b>Equipment ID:</b> EU533 – EU536, GU537 – GU542, EU472 – EU479, GU480 – GU487, EU548 – EU552, DU553 – GU557, EU560</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for CO and NO<sub>x</sub> emissions shall be conducted within 180 days after startup. The source test will be used to verify emissions factors used in the construction permit application.</p>  |
| B.21   | <p><b>Equipment ID:</b> EU19-EU36, GU19-GU36<br/><b>Control Device ID:</b> ECD4, GCD4</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for PM<sub>10</sub> emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>   |
| B.22   | <p><b>Equipment ID:</b> EU19-EU36, GU19-GU36<br/><b>Control Device ID:</b> ECD4, GCD4</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for PM<sub>2.5</sub> emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more</p>   |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |  |
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| <b>Condition Number</b>                          | <b>Conditions</b>  |
|  | than the values which were used to establish the Potential to Emit in the construction permit application.   |
| B.23   | <p><b>Equipment ID:</b> EU1 – EU6, EU151 – EU156, EU157 – EU174, EU175 – EU180, EU244 – EU255, GU1 – GU6, GU151 – GU156, GU157 – GU174, GU175 – GU180, GU244 – GU255<br/> <b>Control Device ID:</b> ECD1, ECD6, ECD7, ECD15, ECD16, ECD17, ECD18, GCD1, GCD6, GCD7, GCD15, GCD16, GCD17, GCD18</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for VOC emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>  |
| B.24   | <p><b>Equipment ID:</b> EU1 – EU6, EU151 – EU156, EU157 – EU174, EU175 – EU180, EU244 – EU255, GU1 – GU6, GU151 – GU156, GU157 – GU174, GU175 – GU180, GU244 – GU255<br/> <b>Control Device ID:</b> ECD1, ECD6, ECD7, ECD15, ECD16, ECD17, ECD18, GCD1, GCD6, GCD7, GCD15, GCD16, GCD17, GCD18</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test to verify the capture efficiency and destruction/removal efficiency of the Carbon Adsorption/Zeolite Finishing Device shall be conducted. The source test will be used to verify that the capture efficiency of this source is no less than 100% and the destruction/removal efficiency from this source is at least 99%.</p> |
| B.25   | <p><b>Equipment ID:</b> EU1-EU6, GU1-GU6<br/> <b>Control Device ID:</b> ECD1, GCD1</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for Benzene emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>  |
| B.26   | <p><b>Equipment ID:</b> EU1-EU6, GU1-GU6<br/> <b>Control Device ID:</b> ECD1, GCD1</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for Toluene emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>  |
| B.27   | <p><b>Equipment ID:</b> EU1-EU6, GU1-GU6<br/> <b>Control Device ID:</b> ECD1, GCD1</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for Ethylbenzene emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>   |



| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |  |
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| <b>Condition Number</b>                          | <b>Conditions</b>  |
| B.28   | <p><b>Equipment ID:</b> EU1-EU6, GU1-GU6<br/> <b>Control Device ID:</b> ECD1, GCD1</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for Xylene emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>   |
| B.29   | <p><b>Equipment ID:</b> EU151-EU156, EU244-EU255, GU151-GU156, GU244-GU255<br/> <b>Control Device ID:</b> ECD15, ECD18, GCD15, GCD18</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for Formaldehyde emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>   |
| B.30   | <p><b>Equipment ID:</b> EU19-EU36, GU19-GU36,<br/> <b>Control Device ID:</b> ECD4, GCD4</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for Manganese Compounds emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>   |
| B.31   | <p><b>Equipment ID:</b> EU19-EU36, EU55-EU81, EU91-EU114, GU19-GU36, GU55-GU81, GU91-GU114<br/> <b>Control Device ID:</b> ECD4, ECD8, ECD11, GCD4, GCD8, GCD11</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for Nickel Compounds emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>   |
| B.32   | <p><b>Equipment ID:</b> EU7-EU12, EU19-EU36, EU55-EU81, GU7-GU12, GU19-GU36, GU55-GU81<br/> <b>Control Device ID:</b> ECD2, ECD4, ECD8, GCD2, GCD4, GCD8</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) An initial source test for Cobalt Compounds emissions shall be conducted within 180 days after startup. The source test will be used to verify that the emissions are no more than the values which were used to establish the Potential to Emit in the construction permit application.</p>   |
| B.33   | <p><b>Equipment ID:</b> EU558, EU559, GU558</p> <p>(S.C. Regulation 61-62.1, Section II(J)(2)) The owner or operator shall perform a visual inspection on a weekly basis of sources subject to opacity limits. The inspection shall occur during normal source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner or operator</p> |

| <b>B. LIMITATIONS, MONITORING, AND REPORTING</b> |   |
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| <b>Condition Number</b>                          | <b>Conditions</b>   |
|  | <p>shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.</p> <p>Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.</p> |

| <b>C. NESHAP (40 CFR 61 AND 40 CFR 63)</b> |  |
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| <b>Condition Number</b>                    | <b>Conditions</b>  |
| C.1  | All NESHAP notifications and reports shall be sent to the Department.  |
| C.2  | All NESHAP notifications and the cover letter to periodic reports shall be sent to the United States Environmental Protection Agency (US EPA) as required by the specific subpart.   |
| C.3  | <p>Emergency engines less than or equal to 150 kilowatt (kW) rated capacity, emergency engines greater than 150 kW rated capacity designated for emergency use only and operated a total of 500 hours per year or less for testing and maintenance and have a method to record the actual hours of use, such as an hour meter, and diesel engine driven emergency fire pumps that are operated a total of 500 hours per year or less for testing and maintenance and have a method to record the actual hours of use, such as an hour meter, have been determined to be exempt from construction permitting requirements in accordance with South Carolina Regulation 61-62.1.</p> <p>If present, these sources shall still comply with the requirements of all applicable regulations, including but not limited to the following:</p> <p>New Source Performance Standards (NSPS) 40 CFR 60 Subpart A (General Provisions);<br/>                     NSPS 40 CFR 60 Subpart IIII (Stationary Compression Ignition Internal Combustion Engines);<br/>                     NSPS 40 CFR 60 Subpart JJJJ (Stationary Spark Ignition Internal Combustion Engines);<br/>                     National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart A (General Provisions); and<br/>                     NESHAP 40 CFR 63 Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines).</p> |
| C.4  | This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing. Existing affected sources shall be in compliance with the requirements of these Subparts by the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.  |

| <b>D. GENERAL FACILITY WIDE</b> |  |
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| <b>Condition Number</b>         | <b>Conditions</b>  |
| D.1                             | The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.   |
| D.2                             | <p>In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II(L), the owner or operator may document an emergency situation through properly signed, contemporaneous operating logs, and other relevant evidence that verify:</p> <ol style="list-style-type: none"> <li>1. An emergency occurred, and the owner or operator can identify the cause(s) of the emergency;</li> <li>2. The permitted source was at the time the emergency occurred being properly operated;</li> <li>3. During the period of the emergency, the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and</li> <li>4. The owner or operator gave a verbal notification of the emergency to the Department within twenty-four (24) hours of the time when emission limitations were exceeded, followed by a written report within thirty (30) days. The written report shall include, at a minimum, the information required by S.C. Regulation 61-62.1, Section II(J)(1)(c)(i) through (J)(1)(c)(viii). The written report shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.</li> </ol> <p>This provision is in addition to any emergency or upset provision contained in any applicable requirement.</p> |
| D.3                             | <p>(S.C. Regulation 61-62.1, Section II(O)) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following:</p> <ol style="list-style-type: none"> <li>1. Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit.</li> <li>2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.</li> <li>3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.</li> <li>4. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.</li> </ol>  |
| D.4                             | (S.C. Regulation 61-62.1, Section II(J)(1)(a)) No applicable law, regulation, or standard will be contravened.   |
| D.5                             | (S.C. Regulation 61-62.1, Section II(J)(1)(e)) Any owner or operator who constructs or operates a source or modification not in accordance with the application submitted pursuant to this regulation or with the terms of any approval to construct, or who commences construction after the effective date of  |

| <b>D. GENERAL FACILITY WIDE</b> |  |
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| <b>Condition Number</b>         | <b>Conditions</b>  |
|                                 | these regulations without applying for and receiving approval hereunder, shall be subject to enforcement action. |

| <b>E. EMISSIONS INVENTORY REPORTS - RESERVED</b> |
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| <b>F. GENERAL RECORD KEEPING AND REPORTING</b> |  |
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| <b>Condition Number</b>                        | <b>Conditions</b>  |
| F.1  | (S.C. Regulation 61-62.1, Section II(J)(1)(g)) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years from the date the record was generated and shall be made available to a Department representative upon request.  |
| F.2  | The owner or operator shall submit reports required in this permit in a timely manner and according to the reporting schedule established through the Department's approved electronic permitting system.  |
| F.3  | All reports and notifications required under this permit shall be submitted to the Department.   |
| F.4  | (S.C. Regulation 61-62.1, Section II(A)(3)) The owner or operator shall submit written notification to the Department of the date construction is commenced, postmarked within thirty (30) days after such date.   |
| F.5  | (S.C. Regulation 61-62.1, Section II(J)(1)(c)) For sources not required to have continuous emission monitors, any malfunction of air pollution control equipment or system, process upset, or other equipment failure which results in discharges of air contaminants lasting for one (1) hour or more and which are greater than those discharges described for normal operation in the permit application, shall be reported to the Department within twenty-four (24) hours after the beginning of the occurrence and a written report shall be submitted to the Department within thirty (30) days. The written report shall include, at a minimum, the following: <ol style="list-style-type: none"> <li>1. The identity of the stack and/or emission point where the excess emissions occurred;</li> <li>2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions;</li> <li>3. The time and duration of excess emissions;</li> </ol> |

| <b>F. GENERAL RECORD KEEPING AND REPORTING</b> |  |
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| <b>Condition Number</b>                        | <b>Conditions</b>  |
|  | <p>4. The identity of the equipment causing the excess emissions;</p> <p>5. The nature and cause of such excess emissions;</p> <p>6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction;</p> <p>7. The steps taken to limit the excess emissions; and,</p> <p>8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions.</p> <p>The initial twenty-four (24) hour notification should be made to the Department's local Environmental Affairs Regional Office.</p> <p>The written report should be sent to the Department.</p> |

| <b>G. PERMIT EXPIRATION AND EXTENSION</b> |  |
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| <b>Condition Number</b>                   | <b>Conditions</b>  |
| G.1                                       | <p>(S.C. Regulation 61-62.1, Section II(A)(4) and (5) and S.C. Regulation 61-62.1, Section II(J)(1)(f)) Approval to construct shall become invalid if construction:</p> <ul style="list-style-type: none"> <li>a. Is not commenced within eighteen (18) months after receipt of such approval;</li> <li>b. Is discontinued for a period of eighteen (18) months or more; or</li> <li>c. Is not completed within a reasonable time as deemed by the Department.</li> </ul> <p>The Department may extend the construction permit for an additional eighteen (18) month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration.</p> <p>This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within eighteen (18) months of the projected and approved commencement date.</p> |

| <b>H. PERMIT TO OPERATE</b> |  |
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| <b>Condition Number</b>     | <b>Conditions</b>  |
| H.1                         | (S.C. Regulation 61-62.1, Section II(F)(3)) When a Department issued construction permit includes engineering and/or construction specifications, the owner or operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department. If construction is certified as provided above, the owner or operator may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department. If construction is not built as specified in the permit application and associated construction permit(s), the owner or operator must submit to the Department a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation. Construction variances that would trigger additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit. |
| H.2                         | (S.C. Regulation 61-62.1, Section II(F)(1)) The owner or operator shall submit written notification to the Department of the actual date of initial startup of each new or altered source, postmarked within fifteen (15) days after such date. Any source that is required to obtain an air quality construction permit issued by the Department must obtain an operating permit when the new or altered source is placed into operation and shall comply with the requirements of this section.  |
| H.3                         | (S.C. Regulation 61-62.1, Section II(F)(4)(b)) The owner or operator shall submit a written request to the Department for a new or revised operating permit to cover any new or altered source postmarked within fifteen (15) days after the actual date of initial startup of each new or altered source.<br><br>(S.C. Regulation 61-62.1, Section II(F)(4)(c)) The written request for a new or revised operating permit must include, at a minimum, the following information: <ul style="list-style-type: none"> <li>i. A list of sources that were placed into operation; and</li> <li>ii. The actual date of initial startup of each new or altered source.</li> </ul>   |

| <b>I. AMBIENT AIR STANDARDS</b> |  |
|---------------------------------|--|
| <b>Condition Number</b>         | <b>Conditions</b>  |
| I.1                             | Air dispersion modeling (or other method) has previously demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not |

| <b>I. AMBIENT AIR STANDARDS</b> |   |
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| <b>Condition Number</b>         | <b>Conditions</b>   |
|                                 | <p>invalidate the demonstration if they are modified. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.</p> <p>The owner or operator shall maintain this facility at or below the emission rates used in the most recent air dispersion modeling (or other method) demonstration submitted to and approved by the Department, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates used in the demonstration, not to exceed the pollutant limitations in the body of this permit, it may do so by submitting a new demonstration for approval. This condition along with the referenced modeling demonstration will also serve to meet the intent of S.C. Regulation 61-62.5, Standard No. 8, Section II(D). This is a State Only enforceable requirement.</p> |