ROY COOPER
*Governor*
ELIZABETH S. BISER
*Secretary*
MICHAEL ABRACZINSKAS
*Director*

NORTH CAROLINA
*Environmental Quality*

February 1, 2023

Ms. April Mason
General Manager, Plant Services
Toyota Battery Mfg. Inc. dba Toyota Battery Manufacturing NC
151 Engineering Way
Georgetown, KY 25033

SUBJECT: Air Permit No. 10735R01
Toyota Battery Mfg. Inc. dba Toyota Battery Manufacturing NC
Julian, Randolph County, North Carolina
Permit Class: Title V
Facility ID# 7600353

Dear Ms. Mason:

In accordance with your completed application received July 21, 2022, we are forwarding herewith Permit No. 10735R01 to Toyota Battery Mfg. Inc. dba Toyota Battery Manufacturing NC, Julian, Randolph County, North Carolina for the construction and operation of air emissions sources or air cleaning devices and appurtenances.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to file a petition for contested case hearing in the North Carolina Office of Administrative Hearings. Information regarding the right, procedure, and time limit for permittees and other persons aggrieved to file such a petition is contained in the attached "Notice Regarding the Right to Contest a Division of Air Quality Permit Decision."

Unless exempted by a condition of this permit or the regulations, construction of new air pollution sources or air cleaning devices, or modifications to the sources or air cleaning devices described in this permit must be covered under a permit issued by the Division of Air Quality prior to construction. Failure to do so is a violation of G.S. 143-215.108 and may subject the Permittee to civil or criminal penalties as described in G.S. 143-215.114A and 143-215.114B.

This permit shall be effective from February 1, 2023, until April 30, 2030, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Changes have been made to the permit stipulations. The Permittee is responsible for carefully reading the entire permit and evaluating the requirements of each permit stipulation. The Permittee shall comply with all terms, conditions, requirements, limitations, and restrictions set forth in this permit. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application. Specific changes and additions are summarized below (note: this list may not include all changes and additions).

| Page No. | Section | Description of Changes |
|---|---|---|
| Cover and throughout | --- | • Updated all dates and permit revision numbers<br>• Changed all citations of 15A NCAC 2D to 15A NCAC 02D<br>• Changed all citations of 15A NCAC 2Q to 15A NCAC 02Q |
| 1-4 | Emission Sources Table | • Divided table into three subsections (HEV Battery Production, BEV Battery Production, and Miscellaneous)<br>• Added BEV battery line sources (Lines 5-11)<br>• Added generator (ID No. ES-GEN2000b) |
| 5 | A.3 | Split Condition 3 into two conditions: Condition 3 (Permit Renewal Requirement) and Condition 4 (Annual Emission Inventory Requirement). Renumbered all subsequent conditions in permit accordingly. |
| 6 | A.5<br><br>A.7 and A.9 | Added new condition under 02Q .0504 requiring submittal of application for Title V permit prior to commencing operations<br><br>Added ID No. ES-GEN2000b to condition (40 CFR 60 Subpart IIII) |
| 8 | A.9.d.iv.C | Added phrase "or non-emergency demand response" (text from 40 CFR 60 Subpart IIII not included previously in permit) |
| 10 | A.9.f.ii | Changed "described above" to "described in paragraph 7.d.iv.C.I above" |
| 12 | A.12 | • Added Cathode Coating and Drying Lines 5 through 11 to table<br>• Changed Target Parameter in table from "< 100 tons per year" to" < 250 tons per year" |
| 14 | A.14.b.i and A.14.c.i | Changed ES-CCD4 to ES-CCD11 |
| 15 | A.16 | Reformatted list of sources to bullets, and added sources from BEV lines |
| 17 | A.16.e.ii | Changed "indicates" to "indicate" |
| 20 | A.19 | Added source ID Nos. IES-25 through IES-27 |
| 24 | A.22 | Added new requirement "Disclosure of Information Relating to Emissions of Fluorinated Chemicals" |
| --- | Attachment | • Changed description of source ID No. IES-CT from "Cooling Towers" to "Four Cooling Towers"<br>• Added source ID Nos. IES-23 through IES-39<br>• Revised insignificant activities table to remove references to 02Q .0102, TAPs, and Title V pollutants |

Should you have any questions concerning this matter, please contact Eric L. Crump, P.E. at 919-707-8470, or eric.crump@ncdenr.gov.

Sincerely,

Mark J. Cuilla, EIT, CPM, Chief, Air Permitting Section
Division of Air Quality, NC DEQ

Enclosures

c: Laserfiche
Winston-Salem Regional Office

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF AIR QUALITY

**AIR PERMIT NO. 10735R01**

Issue Date: February 1, 2023
Expiration Date: April 30, 2030

Effective Date: February 1, 2023
Replaces Permit: 10735R00

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To construct and operate air emission source(s) and/or air cleaning device(s), and for the discharge of the associated air contaminants into the atmosphere in accordance with the provisions of Article 21B of Chapter 143, General Statutes of North Carolina (NCGS) as amended, and other applicable Laws, Rules and Regulations,

Toyota Battery Mfg. Inc. dba Toyota Battery Manufacturing NC
7039 State Road 1006
Julian, Randolph County, North Carolina
Permit Class: Title V
Facility ID# 7600353

(the Permittee) is hereby authorized to construct and operate the air emissions sources and/or air cleaning devices and appurtenances described below:

| Emission Source ID | Emission Source Description | Control System ID | Control System Description |
|---|---|---|---|
| **HEV Battery Production** | | | |
| ES-CCD1 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 1) with inherent Wet Scrubber (CD-S01) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CCD2 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 2) with inherent Wet Scrubber (CD-S02) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CCD3 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 3) with inherent Wet Scrubber (CD-S03) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CCD4 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 4) with inherent Wet Scrubber (CD-S04) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |

| Emission Source ID | Emission Source Description | Control System ID | Control System Description |
|---|---|---|---|
| ES-ACD1 **MACT CCCCCCC** | Anode: Coating and Drying (Line 1) | N/A | N/A |
| ES-ACD2 **MACT CCCCCCC** | Anode: Coating and Drying (Line 2) | N/A | N/A |
| ES-ACD3 **MACT CCCCCCC** | Anode: Coating and Drying (Line 3) | N/A | N/A |
| ES-ACD4 **MACT CCCCCCC** | Anode: Coating and Drying (Line 4) | N/A | N/A |
| ES-CPM12 **MACT CCCCCCC** | Cathode: Paste Mixing (Lines 1 and 2) with two inherent Particulate Filters (DC-801-01a and DC-801-01b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-CPS12 **MACT CCCCCCC** | Cathode: Press-Slitting (Lines 1 and 2) with two inherent Particulate Filters (DC-801-02a and DC-801-02b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-APM12 **MACT CCCCCCC** | Anode: Paste Mixing (Lines 1 and 2) with two inherent Particulate Filters (DC-801-03a and DC-801-03b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-APS12 **MACT CCCCCCC** | Anode: Press-Slitting (Lines 1 and 2) with two inherent Particulate Filters (DC-801-04a and DC-801-04b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-AS-WD12 | Assembly: Winding & Disassemble (Lines 1 and 2) with two inherent Particulate Filters (DC-801-05a and DC-801-05b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-CPM34 **MACT CCCCCCC** | Cathode: Paste Mixing (Lines 3 and 4) with two inherent Particulate Filters (DC-801-07a and DC-801-07b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-CPS34 **MACT CCCCCCC** | Cathode: Press-Slitting (Lines 3 and 4) with two inherent Particulate Filters (DC-801-08a and DC-801-08b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-APM34 **MACT CCCCCCC** | Anode: Paste Mixing (Lines 3 and 4) with two inherent Particulate Filters (DC-801-09a and DC-801-09b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-APS34 **MACT CCCCCCC** | Anode: Press-Slitting (Lines 3 and 4) with two inherent Particulate Filters (DC-801-10a and DC-801-10b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-AS-WD34 | Assembly: Winding & Disassemble (Lines 3 and 4) with two inherent Particulate Filters (DC-801-11a and DC-801-11b) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-PA-RA **MACT CCCCCCC** | AB PASTE AREA: PASTE RM A1&A2 with inherent Particulate Filter (DC-801-13) (To Be Determined total square feet of filter area) | N/A | N/A |

| Emission Source ID | Emission Source Description | Control System ID | Control System Description |
|---|---|---|---|
| ES-PA-RB **MACT CCCCCCC** | AB PASTE AREA: PASTE RM B1&B2 with inherent Particulate Filter (DC-801-14) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-PA-RC **MACT CCCCCCC** | AB PASTE AREA: PASTE RM C1&C2 with inherent Particulate Filter (DC-801-15) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-PA-PH1 **MACT CCCCCCC** | AB PASTE AREA: POWDER HANDLING 1 with inherent Particulate Filter (DC-801-16) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-PA-PH2 **MACT CCCCCCC** | AB PASTE AREA: POWDER HANDLING 2 with inherent Particulate Filter (DC-801-17) (To Be Determined total square feet of filter area) | N/A | N/A |
| ES-TPAA12 | TOP PLATE ASSEMBLY AREA (Lines 1 and 2) with inherent Wet Dust Collector and Particulate Filter (WDC-801-11a and DC-801-18a) (To Be Determined specifications) | N/A | N/A |
| ES-AS-CLS12 | ASSEMBLY: CAN LASER SEALING (LINES 1 and 2) with two inherent Wet Dust Collectors (WDC-801-01a and WDC-801-01b) (To Be Determined specifications) | N/A | N/A |
| ES-AS-CJ12 | ASSEMBLY: CURRENT COLLECTOR JUNCTION (LINES 1 and 2) with two inherent Wet Dust Collectors (WDC-801-02a and WDC-801-02b) (To Be Determined specifications) | N/A | N/A |
| ES-AS-HS12 | ASSEMBLY: HELIUM SEALING (LINES 1 and 2) with two inherent Wet Dust Collectors (WDC-801-03a and WDC-801-03b) (To Be Determined specifications) | N/A | N/A |
| ES-ST-BBW12-1 | STACKING: BUS BAR WELDING (LINES 1 and 2) with two inherent Wet Dust Collectors (WDC-801-04a and WDC-801-04b) (To Be Determined specifications) | N/A | N/A |
| ES-ST-BBW12-2 | STACKING: BUS BAR WELDING (LINES 1 and 2) with two inherent Wet Dust Collectors (WDC-801-05a and WDC-801-05b) (To Be Determined specifications) | N/A | N/A |
| ES-AS-CLS34 | ASSEMBLY: CAN LASER SEALING (LINES 3 and 4) with two inherent Wet Dust Collectors (WDC-801-06a and WDC-801-06b) (To Be Determined specifications) | N/A | N/A |
| ES-AS-CJ34 | ASSEMBLY: CURRENT COLLECTOR JUNCTION (LINES 3 and 4) with two inherent Wet Dust Collectors (WDC-801-07a and WDC-801-07b) (To Be Determined specifications) | N/A | N/A |
| ES-AS-HS34 | ASSEMBLY: HELIUM SEALING (LINES 3 and 4) with two inherent Wet Dust Collectors (WDC-801-08a and WDC-801-08b) (To Be Determined specifications) | N/A | N/A |
| ES-ST-BBW34-1 | STACKING: BUS BAR WELDING (LINES 3 and 4) with two inherent Wet Dust Collectors (WDC-801-09a and WDC-801-09b) (To Be Determined specifications) | N/A | N/A |
| ES-ST-BBW34-2 | STACKING: BUS BAR WELDING (LINES 3 and 4) with two inherent Wet Dust Collectors (WDC-801-10a and WDC-801-10b) (To Be Determined specifications) | N/A | N/A |

| Emission Source ID | Emission Source Description | Control System ID | Control System Description |
|---|---|---|---|
| ES-TPAA34 | TOP PLATE ASSEMBLY AREA (LINES 3 and 4) with inherent Wet Dust Collector and Particulate Filter (WDC-801-11b and DC-801-18b) (To Be Determined specifications) | N/A | N/A |
| **BEV Battery Production** | | | |
| ES-CCD5 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 5) with inherent Wet Scrubber (CD-S05) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CCD6 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 6) with inherent Wet Scrubber (CD-S06) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CCD7 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 7) with inherent Wet Scrubber (CD-S07) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CCD8 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 8) with inherent Wet Scrubber (CD-S08) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CCD9 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 9) with inherent Wet Scrubber (CD-S09) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CCD10 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 10) with inherent Wet Scrubber (CD-S10) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CCD11 **MACT CCCCCCC** | Cathode: Coating and Drying (Line 11) with inherent Wet Scrubber (CD-S11) (To Be Determined gallons per minute total liquid injection rate) | N/A | N/A |
| ES-CPM5-11 **MACT CCCCCCC** | Cathode: Paste Mixing BEV Lines 5-11 with inherent Particulate Filters (DC-803-01 through DC-809-01) | N/A | N/A |
| ES-CPH5-11 **MACT CCCCCCC** | Cathode: Powder Handling BEV Lines 5-11 with inherent Particulate Filters (DC-803-02 through DC-809-02) | N/A | N/A |
| ES-CPS5-11 **MACT CCCCCCC** | Cathode: Press BEV Lines 5-11 with inherent Particulate Filters (DC-803-03 through DC-809-03) | N/A | N/A |
| ES-APM5-11 **MACT CCCCCCC** | Anode: Mixing BEV Lines 5-11 with inherent Particulate Filters (DC-803-04 through DC-809-04) | N/A | N/A |
| ES-APH5-11 **MACT CCCCCCC** | Anode: Powder Handling BEV Lines 5-11 with inherent Particulate Filters (DC-803-05 through DC-809-05) | N/A | N/A |
| ES-APP5-11 **MACT CCCCCCC** | Anode: Press BEV Lines 5-11 with inherent Particulate Filters (DC-803-06 through DC-809-06) | N/A | N/A |
| ES-AC5-11 **MACT CCCCCCC** | Anode: Tab-cut BEV Lines 5-11 with inherent Particulate Filters (DC-803-07 through DC-809-07) | N/A | N/A |

| Emission Source ID | Emission Source Description | Control System ID | Control System Description |
|---|---|---|---|
| ES-WIN810 **MACT CCCCCCC** | Winding BEV Lines 5-11 with inherent Particulate Filters (DC-803-08 through DC-809-08) | N/A | N/A |
| ES-CPW5-11 **MACT CCCCCCC** | Cathode: Press BEV Lines 5-11 with inherent Wet Dust Collectors (WDC-803-01 through WDC-809-01) | N/A | N/A |
| ES-ACW5-11 **MACT CCCCCCC** | Anode: Tab-cut BEV Lines 5-11 with inherent Wet Dust Collectors (WDC-803-02 through WDC-809-02) | N/A | N/A |
| ES-TCA5-11 | TopCap Assembly BEV Lines 5-11 with inherent Wet Dust Collectors (WDC-803-03 through WDC-809-03) | N/A | N/A |
| ES-AF5-11 | Assembly Front BEV Lines 5-11 with inherent Wet Dust Collectors (WDC-803-04 through WDC-809-04) | N/A | N/A |
| ES-MOD5-11 | Module BEV Lines 5-11 with inherent Wet Dust Collectors (WDC-803-05 through WDC-809-05) | N/A | N/A |
| **Miscellaneous** | | | |
| ES-CLEAN | Cleaning Operations | N/A | N/A |
| ES-GEN2000 **NSPS IIII, MACT ZZZZ** | Diesel-Fired Emergency Generator (2000 kW rated capacity) | N/A | N/A |
| ES-GEN2000b **NSPS IIII, MACT ZZZZ** | Diesel-Fired Emergency Generator for HVAC Backup (2000 kW rated capacity) | N/A | N/A |

in accordance with the completed application 7600353.22B received July 21, 2022 including any plans, specifications, previous applications, and other supporting data, all of which are filed with the Department of Environmental Quality, Division of Air Quality (DAQ) and are incorporated as part of this permit.

This permit is subject to the following specified conditions and limitations including any TESTING, REPORTING, OR MONITORING REQUIREMENTS:

## A. SPECIFIC CONDITIONS AND LIMITATIONS

1. Any air emission sources or control devices authorized to construct and operate above must be operated and maintained in accordance with the provisions contained herein. The Permittee shall comply with applicable Environmental Management Commission Regulations, including Title 15A North Carolina Administrative Code (NCAC), Subchapter 02D .0200, 02D .0202, 02D .0515, 02D .0516, 02D .0521, 02D .0524 (40 CFR 60, Subpart IIII), 02D .0535, 02D .0540, 02D .0605, 02D .0611, 02D .1111 (40 CFR 63, Subpart CCCCCCC, Subpart ZZZZ), 02D .1806, 02Q .0309 and 02Q .0711.

2. REPORTING REQUIREMENT - In accordance with 15A NCAC 02Q .0309, any of the following that would result in previously unpermitted, new, or increased emissions must be reported to the Regional Supervisor, DAQ:

    a. changes in the information submitted in the application regarding facility emissions;

    b. changes that modify equipment or processes of existing permitted facilities; or

    c. changes in the quantity or quality of materials processed.

    If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein. **The Permittee shall submit a permit modification application at least 180 days prior to startup and shall not begin operations until the revised permit is issued. This modification shall contain all of the control device specifications that are listed as "to be determined" in the emission source list.**

3. PERMIT RENEWAL REQUIREMENT- The Permittee, at least 90 days prior to the expiration date of this permit, shall request permit renewal by letter in accordance with 15A NCAC 02Q .0304(d) and (f). Pursuant to 15A NCAC 02Q .0203(i), no permit application fee is required for renewal of an existing air permit (without a modification request). The renewal request (with application Form A) should be submitted to the Regional Supervisor, DAQ.

4. ANNUAL EMISSION INVENTORY REQUIREMENT - As required by 15A NCAC 02Q .0207 "Annual Emissions Reporting", the Permittee shall report by June 30 of each year the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

5. 15A NCAC 02Q .0504: OPTION FOR OBTAINING CONSTRUCTION AND OPERATION PERMIT

    a. The Permittee shall file a Title V Air Quality Permit Application pursuant to 15A NCAC 02Q .0504. to modify the construction and operation permit on or before 12 months after commencing operation of any of the sources listed in this permit.

    b. Reporting. [15A NCAC 02Q .0504] The Permittee shall notify the Regional Office in writing of the date of beginning operation of any of the sources listed in this permit, postmarked no later than 30 days after such date.

6. PARTICULATE CONTROL REQUIREMENT - As required by 15A NCAC 02D .0515 "Particulates from Miscellaneous Industrial Processes," particulate matter emissions from

the emission sources shall not exceed allowable emission rates. The allowable emission rates are, as defined in 15A NCAC 02D .0515, a function of the process weight rate and shall be determined by the following equation(s), where P is the process throughput rate in tons per hour (tons/hr) and E is the allowable emission rate in pounds per hour (lb/hr).

$$E = 4.10 * (P)^{0.67} \quad \text{for } P <= 30 \text{ tons/hr, or}$$
$$E = 55 * (P)^{0.11} - 40 \text{ for } P > 30 \text{ tons/hr}$$

7. SULFUR DIOXIDE CONTROL REQUIREMENT - As required by 15A NCAC 02D .0516 "Sulfur Dioxide Emissions from Combustion Sources," sulfur dioxide emissions from the Diesel-Fired Emergency Generators (ID Nos. ES-GEN2000 and ES-GEN2000b) shall not exceed 2.3 pounds per million Btu heat input.

8. VISIBLE EMISSIONS CONTROL REQUIREMENT - As required by 15A NCAC 02D .0521 "Control of Visible Emissions," visible emissions from the emission sources, manufactured after July 1, 1971, shall not be more than 20 percent opacity when averaged over a six-minute period, except that six-minute periods averaging not more than 87 percent opacity may occur not more than once in any hour nor more than four times in any 24-hour period. However, sources which must comply with a visible emissions standard in 15A NCAC 02D .0524 "New Source Performance Standards" or .1110 "National Emission Standards for Hazardous Air Pollutants" shall meet that standard instead of the 02D .0521 visible emissions standard.

9. 15A NCAC 02D .0524 "NEW SOURCE PERFORMANCE STANDARDS" - For the following equipment, The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR 60, Subpart indicated below, and including Subpart A "General Provisions."

| Emission Source(s) | Regulation |
|---|---|
| Diesel-Fired Emergency Generators (ID No. ES-GEN2000 and ES-GEN2000b) | 40 CFR 60, Subpart IIII "Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE)" |

   a. Emission Standards:

      i. The Permittee shall operate and maintain stationary CI ICE that achieve the emission standards as required in 60.4205 over the entire life of the engine.

      ii. For the 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, the Permittee shall comply with the emission standards for new

nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. [60.4205(b)]

b. Fuel Requirements:

i. Engines subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, as listed below, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [60.4207(b)]

A. Has a maximum sulfur content of 15 ppm [40 CFR 80.510(b)]; and

B. Has a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [40 CFR 80.510(b)]

c. Monitoring Requirements:

i. For the emergency stationary CI ICE that does not meet the standards applicable to non-emergency engines, the Permittee shall install a non-resettable hour meter prior to startup of the engine. [60.4209(a)]

d. Compliance Requirements:

i. The Permittee shall do all the following, except as permitted under 40 CFR 60.4211(g): [60.4211(a)]

A. Operate and maintain the stationary CI ICE and control device according to the manufacturer's written emission-related instructions or procedures developed by the Permittee that are approved by the engine manufacturer; [60.4211(a)(1)]

B. Change only those emission-related settings that are permitted by the manufacturer [60.4211(a)(2)]; and

C. Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable. [60.4211(a)(3)]

ii. For the 2007 model year and later stationary CI ICE that must comply with the emission standards specified in 40 CFR 60.4204(b) or 4205(b), the Permittee shall comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b), or 4205(b) or (c), as applicable, for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211(g). [60.4211(c)]

iii. If the Permittee does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-

related written instructions, or if the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance per the requirements of 40 CFR 60.4211(g). [60.4211(g)]

iv. The Permittee shall operate the emergency stationary ICE according to the requirements in paragraphs A through C below. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs A through C below, is prohibited. If the Permittee does not operate the engine according to the requirements in paragraphs A through C below, the engine will not be considered an emergency engine under this subpart and shall meet all requirements for non-emergency engines. [60.4211(f)]

A. There is no limit on the use of emergency stationary ICE in emergency situations.

B. The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraph I below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph C below counts as part of the 100 hours per calendar year allowed by this paragraph B.

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 Permittee 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 Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

C. 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 provided in paragraph B above. Except as provided in paragraph I below, 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 North American Electric Reliability Corporation (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; and

(e) The Permittee 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 Permittee.

e. Recordkeeping Requirements:

i. If the stationary CI ICE is equipped with a diesel particulate filter, the Permittee shall keep records of any corrective action taken after the backpressure monitor has notified the Permittee that the high backpressure limit of the engine is approached. [60.4214(c)]

ii. All records required under this section shall be maintained for a period of two (2) years following the date of such record. All records shall be kept on-site and made available to DAQ personnel upon request. [40 CFR 60.7(f)]

iii. Starting with the model years in Table 5 to 40 CFR 60, Subpart IIII, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the Permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee shall record the time of operation of the engine and the reason the engine was in operation during that time. [60.4214(b)]

f. Notification and Reporting Requirements:

i. No initial notifications under 40 CFR 60.7(a)(1) and (a)(3) are required for emergency use engines. [60.4214(b)]

ii. For the emergency stationary CI ICE with a maximum engine power more than 100 HP that operates for non-emergency situations as described in paragraph 9.d.iv.C.I above, the Permittee shall submit an annual report according to the following requirements: [60.4214(d)]

A. The report shall contain the following information:

I. Company name and address where the engine is located.

II. Date of the report and beginning and ending dates of the reporting period.

III. Engine site rating and model year.

IV. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

V. Hours spent for operation for non-emergency situations as described above, including the date, start time, and end time for these non-emergency situations. The report shall also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

B. Annual reports for each calendar year shall be submitted no later than March 31 of the following calendar year.

C. The annual report shall be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report shall be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4.

10. NOTIFICATION REQUIREMENT - As required by 15A NCAC 02D .0535, the Permittee of a source of excess emissions that last for more than four hours and that results from a malfunction, a breakdown of process or control equipment or any other abnormal conditions, shall:

    a. Notify the Director or his designee of any such occurrence by 9:00 a.m. Eastern time of the Division's next business day of becoming aware of the occurrence and describe:

        i. the name and location of the facility,

        ii. the nature and cause of the malfunction or breakdown,

        iii. the time when the malfunction or breakdown is first observed,

        iv. the expected duration, and

        v. an estimated rate of emissions.

    b. Notify the Director or his designee immediately when the corrective measures have been accomplished.

    This reporting requirement does not allow the operation of the facility in excess of Environmental Management Commission Regulations.

11. FUGITIVE DUST CONTROL REQUIREMENT - As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints are received or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

    "Fugitive dust emissions" means particulate matter that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

12. TESTING REQUIREMENT - Under the provisions of North Carolina General Statute 143-215.108 and in accordance with 15A NCAC 02D .0605, the Permittee shall demonstrate compliance with the emission limit(s) by testing the emission source(s) for the specified pollutant(s) as follows:

| Affected Source(s) | Pollutant | Target Parameter | Test Method |
|---|---|---|---|
| Cathode: Coating and Drying (Line 1) with inherent Wet Scrubber (CD-S01)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD1) | VOC | < 250 tons per year | Method 25A |
| Cathode: Coating and Drying (Line 2) with inherent Wet Scrubber (CD-S02)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD2) | | | |
| Cathode: Coating and Drying (Line 3) with inherent Wet Scrubber (CD-S03)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD3) | | | |
| Cathode: Coating and Drying (Line 4) with inherent Wet Scrubber (CD-S04)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD4) | | | |
| Cathode: Coating and Drying (Line 5) with inherent Wet Scrubber (CD-S05)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD5) | | | |
| Cathode: Coating and Drying (Line 6) with inherent Wet Scrubber (CD-S06)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD6) | | | |
| Cathode: Coating and Drying (Line 7) with inherent Wet Scrubber (CD-S07)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD7) | | | |
| Cathode: Coating and Drying (Line 8) with inherent Wet Scrubber (CD-S08)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD8) | | | |
| Cathode: Coating and Drying (Line 9) with inherent Wet Scrubber (CD-S09)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD9) | | | |
| Cathode: Coating and Drying (Line 10) with inherent Wet Scrubber (CD-S10)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD10) | | | |
| Cathode: Coating and Drying (Line 11) with inherent Wet Scrubber (CD-S11)(To Be Determined gallons per minute total liquid injection rate) (ES-CCD11) | | | |

a. The Permittee shall arrange for air emission testing protocols to be provided to the DAQ prior to testing. Testing protocols are not required to be pre-approved by the DAQ prior to testing. The DAQ shall review testing protocols for pre-approval

prior to testing if requested by the Permittee at least 45 days before conducting the test.

b. To afford the Regional Supervisor, DAQ, the opportunity to have an observer present, the Permittee shall PROVIDE the Regional Office, in WRITING, at least 15 days' notice of any required performance test(s).

c. Within 60 days after achieving the maximum production rate at which the affected sources will be operated, but not later than 180 days after the initial startup of the affected sources, the Permittee shall conduct the required performance tests and submit two copies of a written report of the tests to the Regional Supervisor, DAQ.

d. This permit may be revoked, with proper notice to the Permittee, or enforcement procedures initiated, if the results of the test(s) indicate that the facility does not meet applicable limitations.

e. The source shall be responsible for ensuring, within the limits of practicality, that the equipment or process being tested is operated at or near its maximum normal production rate, or at a lesser rate if specified by the Director or his delegate.

f. All associated testing costs are the responsibility of the Permittee.

13. FABRIC FILTER REQUIREMENTS including cartridge filters, baghouses, and other dry filter particulate collection devices - As required by 15A NCAC 02D .0611, particulate matter emissions shall be controlled as described in the permitted equipment list.

    a. Inspection and Maintenance Requirements - To comply with the provisions of this permit and ensure that emissions do not exceed the regulatory limits, the Permittee shall perform, at a minimum, an annual (for each 12-month period following the initial inspection) internal inspection of each particulate collection device system. In addition, the Permittee shall perform periodic inspections and maintenance as recommended by the equipment manufacturer.

    b. Recordkeeping Requirements - The results of all inspections and any variance from manufacturer's recommendations or from those given in this permit (when applicable) shall be investigated with corrections made and dates of actions recorded in a logbook. Records of all maintenance activities shall be recorded in the logbook. The logbook (in written or electronic format) shall be kept on-site and made available to DAQ personnel upon request.

14. SCRUBBER REQUIREMENTS - As required by 15A NCAC 02D .0611, n-methyl-2-pyrrolidone (NMP) emissions shall be controlled as described in the permitted equipment list.

a. Inspection and Maintenance Requirements - To comply with the provisions of this permit and ensure that emissions do not exceed the regulatory limits, the Permittee shall perform periodic inspections and maintenance (I&M) as recommended by the manufacturer. In addition, the Permittee shall perform an annual (for each 12-month period following the initial inspection) internal inspection of each scrubber system.

   As a minimum, the I&M program and each annual inspection should include the following:

   i. inspection of spray nozzles, packing material, chemical feed system (if so equipped), and the cleaning/calibration of all associated instrumentation annually.

b. Recordkeeping Requirements –

   i. The Permitee shall record the total amount (in gallons) of virgin and recycled NMP that is used in the Cathode Coating and Drying lines (ES-CCD1 through ES-CCD11) on a monthly basis.

   ii. The Permitee shall record the total amount (in gallons) of virgin and recycled NMP that is received by the facility on a monthly basis.

   iii. The results of all inspections and any variance from manufacturer's recommendations or from those given in this permit (when applicable) shall be investigated with corrections made and dates of actions recorded in a logbook. Records of all maintenance activities shall be recorded in the logbook. The logbook (in written or electronic format) shall be kept on-site and made available to DAQ personnel upon request.

c. Reporting Requirements - For compliance purposes, the Permittee shall submit the following summary reports postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following information for the previous 17 months and the 12-month rolling totals must be calculated for each of the 12-month periods over the previous 17 months:

   i. The monthly total amount (in gallons) of virgin and recycled NMP that is used in the Cathode Coating and Drying lines (ES-CCD1 through ES-CCD11).

   ii. The total amount (in gallons) of virgin and recycled NMP that is received by the facility.

15. WET DUST COLLECTOR REQUIREMENTS - As required by 15A NCAC 02D .0611, particulate matter emissions shall be controlled as described in the permitted equipment list.

    a. Inspection and Maintenance Requirements - To comply with the provision of this permit and ensure that emissions do not exceed the regulatory limits, the Permittee shall perform periodic inspections and maintenance (I&M) as recommended by the manufacturer. In addition, the Permittee shall perform an annual (for each 12-month period following the initial inspection) inspection of the wet dust collectors.

    b. Recordkeeping Requirements - The results of all inspections and any variance from manufacturer's recommendations or from those given in this permit (when applicable) shall be investigated with corrections made and dates of actions recorded in a logbook. Records of all maintenance activities shall be recorded in the logbook. The logbook (in written or electronic format) shall be kept on-site and made available to DAQ personnel upon request.

16. 15A NCAC 02D .1111 "MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY" - For the sources listed below, the Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart CCCCCCC, "National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing", including Subpart A "General Provisions."

- Anode: Paste Mixing (ID Nos. ES-APM12 and ES-APM34)
- Anode: Press-Slitting (ID Nos. ES-APS12 and ES-APS34)
- Anode: Coating and Drying (ID Nos. ES-ACD1 through ES-ACD4)
- Cathode: Paste Mixing (ID Nos. ES-CPM12 and ES-CPM34)
- Cathode: Press-Slitting (ID Nos. ES-CPS12 and ES-CPS34)
- Cathode: Coating and Drying (IDs No. ES-CCD1 through ES-CCD11)
- AB Paste Area: Powder Handling 1 and 2 (ID Nos. ES-PA-PH1 and ES-PA-PH2)
- AB Paste Area: Paste RM A1&A2 (ID No. ES-PA-RA)
- AB Paste Area: Paste RM B1&B2 (ID No. ES-PA-RB)
- AB Paste Area: Paste RM C1&C2 (ID No. ES-PA-RC)
- Cathode: Paste Mixing BEV Lines 5-11 with inherent particulate filters DC-803-01 through DC-809-01 (ID No. ES-CPM5-11)
- Cathode: Powder Handling BEV Lines 5-11 with inherent particulate filters DC-803-02 through DC-809-02 (ID No. ES-CPH5-11)
- Cathode: Press BEV Lines 5-11 with inherent particulate filters DC-803-03 through DC-809-03 (ID No. ES-CPS5-11)
- Anode: Mixing BEV Lines 5-11 with inherent particulate filters DC-803-04 through DC-809-04 (ID No. ES-APM5-11)
- Anode: Powder Handling BEV Lines 5-11 with inherent particulate filters DC-803-05 through DC-809-05 (ID No. ES-APH5-11)

- Anode: Press BEV Lines 5-11 with inherent particulate filters DC-803-06 through DC-809-06 (ID No. ES-APP5-11)
- Anode: Tab-cut BEV Lines 5-11 with inherent particulate filters DC-803-07 through DC-809-07 (ID No. ES-AC5-11)
- Winding BEV Lines 5-11 with inherent particulate filters DC-803-08 through DC-809-08 (ID No. ES-WIN810)
- Cathode: Press BEV Lines 5-11 with inherent wet dust collectors WDC-803-01 through WDC-809-01 (ID No. ES-CPW5-11)
- Cathode: Press BEV Lines 5-11 with inherent particulate filters DC-803-03 through DC-809-03 (ID No. ES-CPS5-11)
- Anode: Tab-cut BEV Lines 5-11 with inherent Wet Dust Collectors WDC-803-02 through WDC-809-02 (ID No. ES-ACW5-11)

This rule applies to facilities that perform paints and allied products manufacturing that are an area source of hazardous air pollutant (HAP) emissions and process, use, or generate materials containing one or more of the following HAP: benzene, methylene chloride, and compounds of cadmium, chromium, lead, and nickel in amounts greater than 0.1% by weight for carcinogens or 1.0% by weight for non-carcinogens.

a. Compliance Dates - The Permittee shall achieve compliance with the applicable provisions of this permit condition upon startup of the affected source.

b. Standards and Compliance Requirements **(Particulate Control)** - For each new and existing affected source, the Permittee shall comply with the following requirements. These requirements apply at all times.

   i. Addition of dry pigments or solids that contain target metal HAP to process vessels OR to the grinding or milling process device:

      A. Operate a capture system that minimizes fugitive particulate emissions and route them to a control device with visible emissions of less than 10% opacity. The opacity requirement does not apply to particulate control devices that do not vent to the atmosphere; OR

      B. Add pigments and solids to vessels in liquid, slurry, or paste form.

   ii. Grinding and milling of materials containing the target metal HAP:

      A. Capture particulate emissions and route them to a control device with visible emissions of less than 10% opacity. The opacity requirement does not apply to particulate control devices that do not vent to the atmosphere; OR

      B. Fully enclose the grinding and milling equipment during this process; OR

C. Ensure that the pigments and solids are in the solution during the grinding and milling.

c. Initial Particulate Control Device Inspection - The Permittee shall conduct an initial inspection of each particulate control device according to the following requirements:

i. The Permittee shall conduct each inspection no later than 180 days after the applicable compliance date.

ii. For each dry particulate control system, the Permittee shall visually inspect the system ductwork and dry particulate control unit for leaks. The Permittee shall also inspect the inside of each dry particulate control unit for structural integrity and condition.

iii. An initial inspection of the internal components of the particulate control system is not required if there is a record that an inspection meeting the requirements of this subsection has been performed within the past 12 months and any maintenance actions have been resolved.

d. Initial Particulate Control Device Compliance Test Requirements -

i. The Permittee shall conduct the initial compliance test no later than 180 days after the applicable compliance date.

ii. For each particulate control device, the Permittee shall conduct a visible emission test consisting of three 1-minute test runs using Method 203C (40 CFR part 51, appendix M). The visible emission test runs shall be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. If the average test results of the visible emissions test runs indicate opacity greater than 10%, the Permittee shall take corrective action and retest within 15 days.

iii. At least 45 days prior to performing the required emissions testing, the Permittee shall submit a testing protocol to the Regional Supervisor, DAQ for review and approval. All testing protocols shall be approved by the DAQ prior to performing such tests; and

iv. To afford the Regional Supervisor, DAQ, the opportunity to have an observer present, the Permittee shall PROVIDE the Regional Office, in WRITING, at least 7 days' notice of any required performance test.

v. The results of this test shall be submitted with the Notification of Compliance Status.

e. Ongoing Particulate Control Device Inspection and Testing Requirements -

i. Dry Particulate Control System Inspection Requirements: The Permittee shall inspect and maintain each dry particulate control system according to the following requirements.

A. The Permittee shall conduct weekly visual inspections of any flexible ductwork for leaks.

B. The Permittee shall conduct inspections of the rigid, stationary ductwork for leaks, and the interior of the dry particulate control unit for structural integrity and to determine the condition of the fabric filter (if applicable) every 12 months.

ii. Ongoing Visual Testing Requirements for Particulate Control Systems: For each particulate control device, the Permittee shall conduct a 5-minute visual determination of emissions from the particulate control device every 3 months using Method 22 (40 CFR part 60, appendix A-7). The visible emission test shall be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. If visible emissions are observed for two minutes of the required 5-minute observation period, the Permittee shall conduct a Method 203C (40 CFR part 51, appendix M) test within 15 days of the time when visible emissions were observed. The Method 203C test will consist of three 1-minute test runs and shall be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel HAP to a process vessel or to the grinding and milling equipment. If the Method 203C test runs indicate greater than 10% opacity visible emissions, the Permittee shall comply with the following:

A. The Permittee shall take corrective action and retest using Method 203C within 15 days. The Method 203C test will consist of three 1-minute test runs and shall be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. The Permittee shall continue to take corrective action and retest each 15 days until a Method 203C test indicates an opacity equal to or less than 10% opacity.

B. The Permittee shall prepare a deviation report in accordance with §63.11603(b)(3) for each instance in which the Method 203C opacity results were greater than the limitation in §63.11601(a)(5).

C. The Permittee shall resume the visible determinations of emissions from the particulate control device in accordance with the requirements of this section 3 months after the previous visible determination.

f. Recordkeeping Requirements - In accordance with 40 CFR 63.11602 and 63.11603, the Permittee shall maintain records of the following:

i. Copies of the Initial Notification of Applicability, the Notification of Compliance Status, and each Annual Compliance Certification Report.

ii. The Permittee shall record the following information for each inspection and testing activity:

A. The date, place, and time;

B. Person conducting the activity;

C. Technique or method used;

D. Operating conditions during the activity;

E. Results; and

F. Description of correction actions taken.

iii. The Permittee shall keep each record for 5 years following the date of each recorded action. The Permittee shall keep each record onsite for at least 2 years after the date of each recorded action according to §63.10(b)(1). The Permittee may keep the records offsite for the remaining 3 years.

g. Reporting Requirements - In addition to the notification requirements of the Environmental Protection Agency (EPA), the Permittee is required to NOTIFY the Regional Supervisor, DAQ, in WRITING, of the following:

i. An Initial Notification of Applicability including a description of the affected sources shall be submitted in accordance with 40 CFR 63.1160(a). The notification must be submitted no later than 180 days after initial startup.

ii. A Notification of Compliance Status shall be submitted within 180 days after the initial startup of a new source subject to this Subpart. The notice shall contain the following information:

A. The company's name and address;

B. A statement by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification, a description of the method of compliance (i.e., compliance with management practices, installation of a wet or dry scrubber) and a statement of

whether the source has complied with all the relevant standards and other requirements of this subpart.

C. A copy of the initial particulate control device compliance test, if applicable.

iii. An Annual Compliance Certification report shall be prepared by January 31 of each year. This report does not need to be submitted unless a deviation from the requirements of this subpart has occurred. If a deviation has occurred during the year, each annual compliance certification report shall be submitted along with the deviation report, and postmarked no later than February 15. The report shall contain the following information:

A. Company name and address;

B. A statement in accordance with §63.9(h) of the General Provisions that is signed by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart; and

C. Date of report and beginning and ending dates of the reporting period.

D. Deviation Report - If a deviation has occurred during the reporting period, the Permittee shall include a description of deviations from the applicable requirements, the time periods during which the deviations occurred, and the corrective actions taken. This deviation report shall be submitted along with the annual compliance certification report.

17. 15A NCAC 02D .1111 "MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY"- For the 2000 kW Diesel-Fired Emergency Generator (ID No. ES-GEN2000), classified as new stationary RICE located at an area source of HAP emissions, the Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .1111, as promulgated in 40 CFR 63, Subpart ZZZZ - "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines," including Subpart A "General Provisions."

a. In accordance with 40 CFR §63.6590(c)(1), this source shall meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A by meeting the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines. No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ or Subpart A.

18, CONTROL AND PROHIBITION OF ODOROUS EMISSIONS - As required by 15A NCAC 02D .1806 "Control and Prohibition of Odorous Emissions" the Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

19. FEDERAL AND STATE RULES APPLICABLE TO SOURCES EXEMPTED FROM AIR PERMITTING REQUIREMENTS - Your facility is subject to the following Federal rules which are applicable to some of the emission sources at your facility listed on the "Insignificant/Exempt Activities" list attached to this permit. The purpose of this permit condition is to inform you of your compliance obligations to these applicable rules as they are enforceable.

| Affected Source(s) | Rules |
|---|---|
| IES-5 - 50 kW Diesel-fired Emergency Generator | 40 CFR 60 - NSPS -- Subpart IIII -- Stationary Compression Ignition Internal Combustion Engines<br>**AND**<br>40 CFR 63 - NESHAP/GACT -- Subpart ZZZZ -- Stationary Reciprocating Internal Combustion Engines |
| IES-6 – 1,250 kW Diesel-fired Emergency Generator | |
| IES-7 - 147.7 HP Diesel-fired Emergency Fire Pump | |
| IES-25 – 1,250 kW diesel-fired emergency generator | |
| IES-26 – 50 kW diesel-fired emergency generator | |
| IES-27 - 147 hp diesel-fired fire pump | |

20. NOTIFICATION REQUIREMENT - In accordance with 15A NCAC 02Q .0309, this permit may be revoked unless the facility is constructed in accordance with the approved plans, specifications, and other supporting data. Within 15 days after startup of the new facility, the Permittee shall provide written notice of the startup to the Regional Supervisor, DAQ.

21. TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT - Pursuant to 15A NCAC 02Q .0711 "Emission Rates Requiring a Permit," for each of the below listed toxic air pollutants (TAPs), the Permittee has made a demonstration that facility-wide actual emissions, where one or more emission release points are obstructed or non-vertically oriented, do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A

NCAC 02Q .0711(a). The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed TPERs listed in 15A NCAC 02Q .0711(a).

a. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.

b. PRIOR to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 02D .1100 "Control of Toxic Air Pollutants".

c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

| Pollutant | Carcinogens (lb/yr) | Chronic Toxicants (lb/day) | Acute Systemic Toxicants (lb/hr) | Acute Irritants (lb/hr) |
|---|---|---|---|---|
| Acetaldehyde (75-07-0) | | | | 6.8 |
| Acrolein (107-02-8) | | | | 0.02 |
| Arsenic & Compounds (total mass of elemental AS, arsine and all inorganic compounds) (ASC (7778394)) | 0.053 | | | |
| Benzene (71-43-2) | 8.1 | | | |
| Benzo(a)pyrene (Component of 83329/POMTV & 56553/7PAH) (50-32-8) | 2.2 | | | |
| Beryllium Metal (unreacted) (Component of BEC) (7440-41-7) | 0.28 | | | |
| Cadmium Metal, elemental, unreacted (Component of CDC) (7440-43-9) | 0.37 | | | |
| Chromium (VI) Soluble Chromate Compounds (Component of CRC) (SolCR6) | | 0.013 | | |
| Formaldehyde (50-00-0) | | | | 0.04 |
| Manganese & compounds (MNC) | | 0.63 | | |

| Pollutant | Carcinogens (lb/yr) | Chronic Toxicants (lb/day) | Acute Systemic Toxicants (lb/hr) | Acute Irritants (lb/hr) |
|---|---|---|---|---|
| Mercury, vapor (Component of HGC) (7439-97-6) | | 0.013 | | |
| Nickel metal (Component of NIC) (7440-02-0) | | 0.13 | | |
| Toluene (108-88-3) | | 98 | | 14.4 |
| Xylene (mixed isomers) (1330-20-7) | | 57 | | 16.4 |

22. DISCLOSURE OF INFORMATION RELATING TO EMISSIONS OF FLUORINATED CHEMICALS [15A NCAC 02Q. 0308(a); 15A NCAC 02Q.0309(b)] - The Permittee shall have an ongoing duty to disclose the presence of materials containing fluorinated chemicals at the facility that have the potential to result in the emission of fluorinated chemicals to the environment. Such disclosures shall be in writing and submitted to the Regional Supervisor, DAQ within thirty days of the Permittee becoming aware of such information, unless such information has already been disclosed to DAQ by the Permittee. The disclosure shall describe the identity, quantity, and use of such material to the extent known. DAQ may require the permittee to conduct analysis or testing of fluorinated chemical emissions as necessary to properly evaluate emissions sources at the facility. As used in this condition, the term “fluorinated chemicals” includes but is not limited to per- and polyfluoroalkyl substances (PFAS).

## B. GENERAL CONDITIONS AND LIMITATIONS

1. In accordance with G.S. 143-215.108(c)(1), TWO COPIES OF ALL DOCUMENTS, REPORTS, TEST DATA, MONITORING DATA, NOTIFICATIONS, REQUESTS FOR RENEWAL, AND ANY OTHER INFORMATION REQUIRED BY THIS PERMIT shall be submitted to the:

   Regional Supervisor
   North Carolina Division of Air Quality
   Winston-Salem Regional Office
   450 West Hanes Mill Road
   Suite 300
   Winston-Salem, NC 27105
   336-776-9800

   For identification purposes, each submittal should include the facility name as listed on the permit, the facility identification number, and the permit number.

2. RECORDS RETENTION REQUIREMENT - In accordance with 15A NCAC 02D .0605, any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. These records must be kept on site for a minimum of 2 years, unless another time period is otherwise specified.

3. ANNUAL FEE PAYMENT - Pursuant to 15A NCAC 02Q .0203(a), the Permittee shall pay the annual permit fee within 30 days of being billed by the DAQ. Failure to pay the fee in a timely manner will cause the DAQ to initiate action to revoke the permit.

4. EQUIPMENT RELOCATION - In accordance with 15A NCAC 02Q .0301, a new air permit shall be obtained by the Permittee prior to establishing, building, erecting, using, or operating the emission sources or air cleaning equipment at a site or location not specified in this permit.

5. REPORTING REQUIREMENT - In accordance with 15A NCAC 02Q .0309, any of the following that would result in previously unpermitted, new, or increased emissions must be reported to the Regional Supervisor, DAQ:

   a. changes in the information submitted in the application regarding facility emissions;

   b. changes that modify equipment or processes of existing permitted facilities; or

   c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

6. In accordance with 15A NCAC 02Q .0309, this permit is subject to revocation or modification by the DAQ upon a determination that information contained in the application or presented in the support thereof is incorrect, conditions under which this permit was granted have changed, or violations of conditions contained in this permit have occurred. In accordance with G.S. 143-215.108(c)(1), the facility shall be properly operated and maintained at all times in a manner that will effectuate an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air cleaning device(s) and appurtenances.

7. CHANGES NOT REQUIRING PERMIT REVISIONS - Pursuant to 15A NCAC 02Q .0318, changes to the facility that are not exempt pursuant to 15A NCAC 02Q .0102 may be allowed without first modifying an applicable air permit if the change(s) meet(s) the requirements of 15A NCAC 02Q .0318(b)(1) through (b)(5) and the owner or operator notifies the Director in writing, using forms provided by the Division, seven calendar days before the change is made. Within 10 business days of receipt of the notice, the Division shall notify the owner or operator of its determination of whether the change(s) meet(s) the requirements of 15A NCAC 02Q .0318(b)(1) through (b)(5).

8. In accordance with G.S. 143-215.108(c)(1), this permit is nontransferable by the Permittee. Future owners and operators must obtain a new air permit from the DAQ.

9. In accordance with G.S. 143-215.108(c)(1), this issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of State law which have occurred prior to the effective date of this permit.

10. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with all applicable requirements of any Federal, State, or Local water quality or land quality control authority.

11. In accordance with 15A NCAC 02D .0605, reports on the operation and maintenance of the facility shall be submitted by the Permittee to the Regional Supervisor, DAQ at such intervals and in such form and detail as may be required by the DAQ. Information required in such reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and preventive maintenance schedules.

12. A violation of any term or condition of this permit shall subject the Permittee to enforcement pursuant to G.S. 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.

13. Pursuant to North Carolina General Statute 143-215.3(a)(2), no person shall refuse entry or access to any authorized representative of the DAQ who requests entry or access for purposes of inspection, and who presents appropriate credentials, nor shall any person

obstruct, hamper, or interfere with any such representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

14. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with any applicable Federal, State, or Local requirements governing the handling, disposal, or incineration of hazardous, solid, or medical wastes, including the Resource Conservation and Recovery Act (RCRA) administered by the Division of Waste Management.

15. PERMIT RETENTION REQUIREMENT - In accordance with 15A NCAC 02Q .0110, the Permittee shall retain a current copy of the air permit at the site. The Permittee must make available to personnel of the DAQ, upon request, the current copy of the air permit for the site.

16. CLEAN AIR ACT SECTION 112(r) REQUIREMENTS - Pursuant to 15A NCAC 02D .2100 "Risk Management Program," if the Permittee is required to develop and register a risk management plan pursuant to Section 112(r) of the Federal Clean Air Act, then the Permittee is required to register this plan with the USEPA in accordance with 40 CFR Part 68.

17. GENERAL EMISSIONS TESTING AND REPORTING REQUIREMENTS - If emissions testing is required by this permit, or the DAQ, or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow all DAQ procedures including protocol approval, regional notification, report submittal, and test results approval. Additionally, in accordance with 15A NCAC 02D .0605, the Permittee shall follow the procedures for obtaining any required audit sample and reporting those results.

Permit issued this the 1st day of February, 2023.

Mark J. Cuilla, EIT, CPM, Chief, Air Permitting Section
By Authority of the Environmental Management Commission

ATTACHMENT to Permit No. 10735R01, February 1, 2023

## Insignificant Activities per 15A NCAC 02Q .0503(8)

| Emission Source ID No. | Emission Source Description[1,2] |
|---|---|
| IES-CT | Four Cooling Towers |
| IES-1 | 5,283 Gallon NMP Supply Tank |
| IES-2 | 5,283 Gallon NMP Supply Tank |
| IES-3 | 3,963 Gallon NMP Recovery Tank |
| IES-4 | 3,963 Gallon NMP Recovery Tank |
| IES-5 | 50 kW Diesel-fired Emergency Generator |
| IES-6 | 1,250 kW Diesel-fired Emergency Generator |
| IES-7 | 147.7 HP Diesel-fired Emergency Fire Pump |
| IES-8 | Chemical Wastewater Collection Tank |
| IES-9 | Chemical Wastewater Collection Tank |
| IES-10 | Chemical Wastewater Collection Tank |
| IES-11 | Chemical Wastewater Collection Tank |
| IES-12 | Electrolyte Receiving Tank |
| IES-13 | Electrolyte Supply Tank |
| IES-14 | QC EVALUATION RM: TABLE TOP FUME HOOD (C8H8) controlled by Particulate Filter DC-801-19 (To Be Determined total square feet of filter area) |
| IES-15 | QC EVALUATION RM: TABLE TOP FUME HOOD (C8H8) controlled by Particulate Filter DC-801-20 (To Be Determined total square feet of filter area) |
| IES-16 | TABLE TOP FUME HOOD (C8H8) controlled by Particulate Filter DC-801-21 (To Be Determined total square feet of filter area) |
| IES-17 | QC EVALUATION RM: LIQUID CHEMICAL STORAGE TANK controlled by Particulate Filter DC-801-22 (To Be Determined total square feet of filter area) |
| IES-18 | QC EVALUATION RM: BATTERY DISMANTLING BOOTHS 1 (Co, Ni, Mn) controlled by Particulate Filter DC-801-23 (To Be Determined total square feet of filter area) |
| IES-19 | QC EVALUATION RM: BATTERY DISMANTLING BOOTHS 1 (Co, Ni, Mn) controlled by Particulate Filter DC-801-24 (To Be Determined total square feet of filter area) |
| IES-20 | QC EVALUATION RM: BATTERY DISMANTLING BOOTHS 1 (Co, Ni, Mn) controlled by Particulate Filter DC-801-25 (To Be Determined total square feet of filter area) |

| Emission Source ID No. | Emission Source Description[1,2] |
|---|---|
| IES- AS-W34 | Assembly: QC Washing (Lines 3 and 4) controlled by Particulate Filters DC-801-06a and DC-801-06b (To Be Determined total square feet of filter areas) |
| IES- AS-W12 | Assembly: QC Washing (Lines 1 and 2) controlled by Particulate Filters DC-801-12a and DC-801-12b (To Be Determined total square feet of filter areas) |
| IES-21 | 793 Gallon Sub NMP Recovery Tank |
| IES-22 | 793 Gallon Sub NMP Recovery Tank |
| IES-23 | 793 Gallon Sub NMP Recovery Tank |
| IES-24 | 793 Gallon Sub NMP Recovery Tank |
| IES-25 | 1250 kW Diesel Fired Emergency Generator (Tier 3) |
| IES-26 | 50 kW Diesel Fired Emergency Generator (Tier 3) for emergency ventilation (Tier 1) |
| IES-27 | 147 hp Diesel Fire Pump (Tier 3) |
| IES-28 | 6,604 Gallon NMP Supply Tank |
| IES-29 | 6,604 Gallon NMP Supply Tank |
| IES-30 | 6,604 Gallon NMP Supply Tank |
| IES-31 | 6,604 Gallon NMP Supply Tank |
| IES-32 | 5,283 Gallon NMP Recovery Tank |
| IES-33 | 5,283 Gallon NMP Recovery Tank |
| IES-34 | 5,283 Gallon NMP Recovery Tank |
| IES-35 | 5,283 Gallon NMP Recovery Tank |
| IES-36 | Electrolyte Receiving Tank |
| IES-37 | Electrolyte Supply Tank |
| IES-38 | Chemical Wastewater Collection Tank |
| IES-39 | Chemical Wastewater Collection Tank |

[1]Because an activity is exempted from being required to have a permit or permit modification does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
[2]When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit."