

AIR POLLUTION CONTROL

*Shelby County
Health Department*

PERMIT TO OPERATE TITLE V - MAJOR SOURCE PERMIT NUMBER: 00083-01TV

**Carrier Corporation
97 South Byhalia Road
Collierville, TN 38017**

INITIAL ISSUANCE DATE: June 1, 1998

RENEWAL DATE: June 21, 2016

EXPIRATION DATE: June 21, 2021

This permit fulfills the requirements of Title V of the Federal Clean Air Act (42 U.S.C. 7661a-7661e) and the federal regulations promulgated in 40 CFR Part 70. This permit is issued in accordance with Town of Collierville Code Section 96.02, which adopts by reference Rule 1200-3-9.02(11) of the Tennessee Air Pollution Control Regulations. The permittee has been granted permission to operate an air contaminant source in accordance with the emission limitations, monitoring, record-keeping, reporting, and all other requirements set forth herein.

A permit condition may be appealed by filing a petition for reconsideration within thirty (30) days after the mailing date of the permit.

This permit may be subject to revocation, suspension, modification or amendment by the Technical Secretary for cause including the evidence of non-compliance with any of the above, or for any misrepresentation made in the application(s), supporting data entered therein or attached thereto, or any subsequent submittal or supporting data, or for any alterations affecting the emissions from this source.

*Robert Rogers, P. E., Technical Manager
Pollution Control Section*

Issuance of this permit shall not relieve any owner or operator of the responsibility to comply fully with any other requirements of local, State, or Federal law.

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SECTION I - SOURCE INFORMATION

Facility Name: Carrier Corporation - Collierville Plant
Facility Address: 97 South Byhalia Road
Collierville, TN 38017

Facility Mailing Address: Same as above

Facility Owner: Carrier Corporation
Owner Address: Same as above

Responsible Official: Steven Youngblood, Plant Manager - (901) 854-3000
Responsible Official Address: Same as above

Billing Contact: Amy McCaffery, EHS Specialist - (901) 854-5318
Billing Address: Same as above

Technical Contacts: Amy McCaffery, EHS Specialist - (901) 854-5318
Ryan K. Adamson, P.E., EHS Manager - (901) 854-3131
Technical Contact Address: Same as above

Owner's Registered Agent: CT Corporation System
Registered Agent's Address: 800 S. Gay Street
Suite 2021
Knoxville, TN 37929-9710

Reg. Agent Telephone Number: (423) 687-3113

Facility's Primary Activity: Manufacture of refrigeration and heating equipment

NAICS Code(s): 333415

SECTION II - PERMIT INFORMATION

Application Received: December 21, 2020 (Renewal)

Application Dated: December 17, 2020 (Renewal)

Completeness Determination: *Defaulted (Streamlined application with no changes from current permit)*

Public Notice: PENDING

Surrounding States Notice: PENDING

Public Hearing: PENDING

Comments Received: PENDING

To EPA for Review: PENDING

EPA Comments: PENDING

Title V Operating Permit

Initial Permit Issue Date: June 1, 1998

Renewal Issue Date: PENDING

Permit engineer: Gregg P. Fortunato

Facility classification:

- Major-PSD
- Major-Title V
- NSPS Federal (*40 CFR Part 60, Subparts Dc and IIII*) (*None applicable to this permit action*)
- NSPS Local
- NESHAP (*40 CFR Part 61*)
- NESHAP/MACT (*40 CFR Part 63, Subpart ZZZZ - Area Source NESHAP for RICE*)
- LAER/BACT/RACT

Type of permit:

- New Construction
- Title V Operating
- Synthetic Minor
 - Unrestricted PTE above major source threshold (>100 tpy) for criteria pollutant(s)
 - Unrestricted PTE above major source threshold (>10 tpy) for a single HAP
 - Unrestricted PTE above major source threshold (>25 tpy) for combined HAPs
- Modification
 - Major modification
 - Minor Modification
- Amendment
- Permit Renewal

Emission change:

- Emissions increase
- Emissions decrease
- Emissions the same

SECTION III – EMISSION UNITS, POINTS and CONTROLS

1. Emission Units and Source Identification

Emission Unit No.	Emission Group No.	Source Identification	Description	Date Installed ¹
1 and 2 ²	Not Applicable (NA)	B-3 <i>(Permanently out of service and removed from permit)</i>	Old Washer Line Natural gas fired 12.5 MM Btu/hr boiler	NA
3 - 6	1	Paint Booths 1 - 4 (Lines 1 - 4)	Robotic paint booths for copper plate fin condenser coils	2007
7	1	Fin Presses	42 plate fin presses	2005
8	5	North Remediation System	Soil vapor extraction and stripping towers	1991
9	6	Central Remediation System	Soil vapor extraction	1995
10	NA	Paint Stripping Process <i>(Permanently out of service and removed from permit)</i>	Molten salt bath with natural gas fired burners and two heated quench	2005
11 ³	1	Paint Booth 5 (Line 5)	Robotic paint booth for plate fin coils	2007
12 ⁴	2	Hot Water Boiler - New Washer Line (B-4)	New Washer Line – Natural gas-fired three-staged hot water 11.5 MM Btu/hr boiler	2005
13 ⁵	2	Powder Coating – Lines 3 and 4	Natural gas-fired dry oven (3.85 MM Btu/hr)	2005
14 ⁵	2	Powder Coating – Lines 3 and 4	Natural gas-fired cure oven (5.175 MM Btu/hr)	2005
15 ⁵	2	Powder Coating – Lines 3 and 4	Natural gas-fired cure oven (5.175 MM Btu/hr)	2005
16	NA	Powder Coating – Line 1 and 2 <i>(Permanently out of service and removed from permit)</i>	Natural gas fired dry oven (3.5 MM Btu/hr)	NA
17	NA		Natural gas fired dry oven (3.5 MM Btu/hr)	NA
18	NA		Natural gas fired cure oven (4.0 MM Btu/hr)	NA
19	NA		Natural gas fired cure oven (3.5 MM Btu/hr)	NA
20 ⁶	4	De-oiler System (Thermal Cleaner)	Burn off oven/degreaser for removing oil residue from aluminum plate fin coils. Includes an 8.0 MM Btu/hr natural gas-fired thermal cleaner for burn off vapors. The thermal cleaner is also the heat source for the burn off oven/degreaser.	2013
21 ⁷	3	Fluidized Bed Parts Cleaner (Coating removal from powder coating conveyance hangers)	3.78 MM Btu/hr natural gas-fired fluidized sand bed parts cleaner with an integrated process heater/afterburner exhausting through a cyclone	2015
22 and 23	7	Emergency Engines	462 HP emergency generator (eg) and 132 HP emergency fire pump (fp) engine	2005 (eg) 2015 (fp)
24 ⁸	1	Paint Booth 8 (Line 8)	Robotic paint booth for aluminum plate fin condenser coils	See footnote 8
25 - 31 ³	1	Paint Booths 9 - 15 (Lines 9 - 15)	Robotic paint booth for plate fin condenser coils	See footnote 3

¹ Date installed or last reconstructed/modified.

² Boiler B-3 replaced boilers 1 and 2 within the original Title V permit, but has since been decommissioned.

³ Booths 1 - 5 paint copper condenser coils and Booth 8 paints aluminum condenser coils. Aluminum coil Paint Booths 9 - 15 (Emission Units 25 - 31) will be constructed and copper coil paint booths will be decommissioned subsequently until only eight (8) aluminum coil paint booths remain (Paint Booths 8 – 15). No more than a total of nine (9) paint booths (aluminum and copper coil) will be operational at any time during this project that is expected to be completed by the end of 2023.

⁴ Construction Permit No. 00083-22PC; Pending incorporation into Title V Operating Permit No. 00083-01TV.

⁵ Construction Permit No. 00083-21PC; Pending incorporation into Title V Operating Permit No. 00083-01TV.

⁶ Construction Permit No. 00083-23PC; Pending incorporation into Title V Operating Permit No. 00083-01TV.

⁷ Construction Permit No. 00083-24PC; Pending incorporation into Title V Operating Permit No. 00083-01TV.

⁸ Paint Booth No. 8 became available for production activities in March 2020. This booth was previously only for research and development activities.

2. Emission Points and Controls

Emission Point (Stack ID)	Emission Point Description	Emission Unit No.	Emissions	Controls
PB Line 1-5	Paint booth exhaust (Lines 1-5)	3-6 and 11	PM, VOC and HAP	Paint Filter
PB Line 8	Paint booth exhaust – Line 8	24	PM, VOC and HAP	Paint Filter
PB Line 9-15	Paint booth exhaust (Lines 9-15)	25 - 31	PM, VOC and HAP	Paint Filter
Various	Building vents and openings from plate fin presses	7	VOC	None
1-115-00-RS-050	North remediation system stripper - tower exhaust	8	VOC and HAP	None
1-114-00-RS-049	Central remediation system exhaust	9	VOC and HAP	Carbon Adsorption
Boiler 4 (Stacks A and B)	Boiler 4 with two identical stacks	12	PM, SO ₂ , NO _x , CO and VOC	None
Dry Oven 1	Powder Coating - Lines 3 and 4 dry oven exhaust	13	PM, SO ₂ , NO _x , CO and VOC	None
Cure Oven 3	Powder Coating - Line 3 cure oven exhaust	14	PM, SO ₂ , NO _x , CO and VOC	None
Cure Oven 4	Powder Coating - Line 4 cure oven exhaust	15	PM, SO ₂ , NO _x , CO and VOC	None
De-Oiler System (Thermal Cleaner)	De-Oiler System with 8 MM Btu/hr natural gas fired thermal cleaner/oxidizer exhaust	20	PM, SO ₂ , NO _x , CO and VOC	None
Fluidized Bed (EP-21)	Fluidized bed parts cleaner cyclone exhaust	21	PM, SO ₂ , NO _x , CO and VOC	Cyclone and Afterburner
Emergency Engines	462 HP emergency generator and 132 HP emergency fire pump engine	22 and 23	PM, SO ₂ , NO _x , CO and VOC	None

SECTION IV - PERMIT CONDITIONS

FACILITY-WIDE REQUIREMENTS

Emission Limits and Restrictions

Condition No.	Pollutant	Limitation	Cite
1	PM/PM ₁₀ , NO _x , SO ₂ , CO, HAP and VOC	12-month rolling emission limits	Construction Permits No. 00083-20PC, 21PC, 22PC, 23PC and 24PC; Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02 (11)(e)1(i)]; and Source Request
2	Opacity	Not to exceed 20%	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-5-.01]
<i>Local Only Requirements</i>			
3	VOC	General VOC Disposal Requirements	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-18.06(3)(a-d)]
4	VOC	General VOC Storage Requirements	
5	VOC	General VOC Storage Requirements	
6	VOC	General VOC Usage Requirements	

Emission Limits and Restrictions:

- The facility owner or operator shall limit consecutive 12-month rolling facility-wide emissions as follows:

Table FW-1

Pollutant	Consecutive 12-Month Rolling Emission Limit (tons/12-months) ¹
PM/PM ₁₀	6.1
SO ₂	0.2
NO _x	27.9
VOC	231.8
CO	14.8
HAP (Individual) ²	4.4
HAP (Total Combined) ²	12.6

¹ Excludes emergency generator and fire pump engine

² Hazardous Air Pollutant (HAP) limits requested by Carrier in a letter dated November 5, 2015.

- Visible emissions from all emission points at this facility shall not exceed twenty percent (20%) in opacity for more than five (5) minutes in any one (1) hour period or more than twenty (20) minutes in any twenty-four (24) hour period.

FACILITY-WIDE REQUIREMENTS

Emission Limits and Restrictions (continued):

Local Only Requirements:

3. The facility owner or operator shall not cause, allow, or permit the disposal of more than 5 kilograms (kg) (11 pounds [lb]) of any volatile organic compound (VOC), or of any materials containing more than 5 kg (11 lb) of any VOCs, in any 1 day in a manner that would permit the evaporation from the facility of that VOC into the ambient air in excess of the minimum reasonably attainable. "Minimum reasonably attained emissions" is the minimum quantity of VOCs which is emitted when utilizing all reasonable techniques for controlling evaporation during handling of materials for storage and disposal. Prevention of any evaporation of VOCs from storage and disposal techniques is considered minimum reasonably attainable.
4. The facility owner or operator shall not use open containers for the storage or disposal of materials impregnated with VOCs that are used for surface preparation, cleanup, coating removal or equipment cleaning or maintenance.
5. The facility owner or operator shall not store in open containers spent or fresh VOC to be used for surface preparation, cleanup, coating removal, or facility or equipment cleaning or maintenance.
6. The facility owner or operator shall not use VOC for the cleanup of tools and process equipment, such as spray equipment, unless equipment is used to collect the cleaning compounds and to reasonably minimize VOC evaporation to the atmosphere.

FACILITY-WIDE REQUIREMENTS

Reporting Requirements

Condition	Description	Frequency	Cite
1	Semiannual monitoring Report	At least every 6-months	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(iii)(III)]
2	Compliance certification	Annually	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9.02(11)(e)3.(v)]
<i>Local Only Requirements</i>			
3	Emission report	Annually	Town of Collierville Code Section 96.30

Reporting Requirements:

1. The facility owner or operator shall submit a Semi-Annual Monitoring Report to the Shelby County Health Department, Pollution Control Section (the Department). This report shall include all deviations from permit requirements. Each report shall be certified by the responsible official consistent with the requirements of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(d)4]. The reporting periods for these Semi-Annual Monitoring Reports are May 1 through October 31 and November 1 through April 30 each year. These reports shall be due within 60 calendar days of the end of each reporting period.

2. The responsible official shall certify compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. Specifically, the compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification;

 - b) The status of compliance with the terms and conditions of the permit for the period covered by the certification. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify, as possible exceptions to compliance, any periods during which compliance is required in which an excursion or exceedence as defined under Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(b)(30-31)] occurred;

 - c) Whether compliance was continuous or intermittent;

 - d) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(iii)];

FACILITY-WIDE REQUIREMENTS

Reporting Requirements (continued):

- e) Such other facts as the permitting authority may require to determine the compliance status of the source; and
- f) A certification that based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

This certification shall be submitted to the Department and to the USEPA at the following addresses:

Technical Manager
Shelby County Health Department
Pollution Control Section
814 Jefferson Avenue, 4th Floor
Memphis, Tennessee 38105

Enforcement and Compliance Assurance Division
US EPA Region 4
61 Forsyth Street, S.W.
Atlanta, GA 30303

Annual Compliance Certifications shall be for the consecutive 12-month rolling period from May 1 through April 30 each year. These reports shall be due within 60 calendar days of the end of the reporting period.

Local Only Requirements:

3. The facility owner or operator shall submit a report to the Department, on an annual basis, that establishes the amount of actual emissions of each regulated pollutant for the facility according to the provisions in Town of Collierville Code Section 96.30. The schedule for the submission of this annual emission report shall be February 28 every year, for the preceding calendar year, unless otherwise specified by the Department.

EMISSION GROUP 1
(Emission Units 3 - 7, 11 and 24 - 31)

Robotic Paint Booths (8) and Plate Fin Presses (42)

Emission Limits and Restrictions

Condition No.	Pollutant	Limitation	Cite
1	VOC	Coating VOC content limit	Town of Collierville Air Pollution Control Code 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-18-.18(3)] (applies to Emission Units 3 – 7, 11 and 24)
2	VOC	Coil fin press (Emission Unit 7) evaporative lubricant usage consecutive 12-month rolling VOC emission limit	Construction Permit No. 00083-20PC
3	VOC	Robotic paint booths (Emission Units 3-6, 11 and 24) consecutive 12-month rolling VOC emission limit	Construction Permit No. 00083-22PC
4	VOC	Limit on the total number of robotic paint booths in operation during transition from copper condenser coils to aluminum condenser coils	Source request
5	PM/PM ₁₀	Particulate matter process emission standard	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-7-.03 and .04(1 and 2)]
<i>Local Only Requirements</i>			
6	PM/PM ₁₀	Use of fabric filters in paint booths	Construction Permit No. 00083-22PC

Emission Limits and Restrictions:

1. The facility owner or operator shall not cause, allow, or permit the application of any coating (Including paint and evaporative lubricants) within Emission Group 1 (Emission Units 3 - 7, 11 and 24 - 31) with a volatile organic compound (VOC) content in excess of 2.8 pounds per gallon (lbs/gal), excluding water and/or exempt compounds, as applied.
2. VOC emissions from the usage of evaporative lubricants on the coil fin presses (Emission Unit 7) shall not exceed 162.0 tons per consecutive 12-month rolling period. This emission limit is based upon the quantity of each evaporative lubricant consumed and its respective VOC concentration.
3. VOC emissions from the coil shop robotic paint spray booths (Emission Units 3 - 6, 11 and 24 - 31) shall not exceed 48.0 tons per consecutive 12-month rolling period. This emission limit is based upon the quantity of each paint product consumed and its respective VOC concentration.
4. The facility owner or operator is permitted to construct seven (7) new aluminum condenser coil robotic paint spray booths (Paint Booths 9 - 15 (Emission Units 25 - 31)) in addition to existing aluminum condenser coil robotic Paint Booth 8 (Emission Unit 24) through calendar year 2023 as the facility transitions to exclusively aluminum condenser coils from copper condenser coils.

EMISSION GROUP 1
(Emission Units 3 - 7, 11 and 24 - 31)

Robotic Paint Booths (8) and Plate Fin Presses (42)

Emission Limits and Restrictions (continued):

No more than two (2) new aluminum condenser coil robotic paint spray booths may be constructed prior to decommissioning of an equivalent number of existing copper condenser coil paint spray booths. A maximum of nine (9) paint booths (aluminum and copper condenser coil) may be operational at any time during the transition to only aluminum condenser coils and a total of eight (8) paint booths (aluminum condenser coil only) upon project completion.

5. The maximum hourly emission rate (E) of PM/PM₁₀ from any emission unit within Emission Group 1 shall not exceed the following:

$$E = 3.59 P^{0.62} \quad \text{where the process weight in tons per hour (P) is less than or equal to 30 tons per hour; and}$$

$$E = 17.31 P^{0.16} \quad \text{where P is greater than 30 tons per hour}$$

Irrespective of the maximum allowable PM/PM₁₀ emission rate as determined above, the concentration of particulate process emissions shall not be required to be less than 0.02 grains per cubic foot of stack gases or greater than 0.25 grains per cubic foot of stack gases corrected to 70°F and 1 atmosphere.

Local Only Requirements:

6. Each paint booth shall be equipped and maintained with fabric filters that will remove particulate matter with a control efficiency sufficient to achieve compliance with the PM/PM₁₀ limit for Emission Group 1.

EMISSION GROUP 1
(Emission Units 3 - 7, 11 and 24 - 31)

Robotic Paint Booths (8) and Plate Fin Presses (42)

Monitoring, Testing and Recordkeeping Requirements

Condition No.	Pollutant	Description	Frequency	Cite
1	VOC	Identification and VOC content of each coating	Continuous	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-18-.03(3)(b)]
2	VOC	Identification and VOC/HAP content of materials used	Continuous	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
3	VOC and HAP	VOC/HAP-containing material throughput and VOC/HAP emissions	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
4	PM/PM ₁₀	Paint filter maintenance and replacement records	As needed	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Monitoring, Testing and Recordkeeping Requirements:

1. The facility owner or operator shall maintain the following records for each coating (Including paint and evaporative lubricants) used within Emission Group 1:
 - a) The name and identification number of each coating used, as applied; and
 - b) The mass of VOC per unit volume of each coating (excluding water and/or exempt compounds) used, as applied.

2. The facility owner or operator shall maintain the following records for each paint, evaporative lubricant, solvent, degreaser and other VOC and/or HAP-containing material used within Emission Group 1, as follows:
 - a) The name and identification number of each VOC and/or HAP-containing material;
 - b) The mass of HAP per unit volume of each HAP-containing material; and
 - c) The mass of VOC per unit volume of each VOC-containing material.

3. The facility owner or operator shall maintain the following records for each emission unit within Emission Group1, as follows:
 - a) Quantities of each paint, evaporative lubricant, solvent, degreaser (including parts washer fluid) and other VOC and/or HAP-containing materials used each month; and
 - b) Monthly and consecutive 12-month rolling actual VOC and HAP emissions to demonstrate compliance with the emission limits for Emission Group 1.

EMISSION GROUP 1
(Emission Units 3 - 7, 11 and 24 - 31)

Robotic Paint Booths (8) and Plate Fin Presses (42)

Monitoring, Testing and Recordkeeping Requirements (continued):

4. The facility owner or operator shall maintain paint filter replacement records for each paint booth.

EMISSION GROUP 1
(Emission Units 3 - 7, 11 and 24 - 31)

Robotic Paint Booths (8) and Plate Fin Presses (42)

Reporting Requirements

Condition No.	Description	Frequency	Cite
1	Notification of noncompliance and Notification for changing of method of compliance	Each occurrence	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-18-.03(3)(c)(1 and 2)]
2	Monitoring report	Semi-annually	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
<i>Local Only Requirements</i>			
3	Notification of robotic paint spray booth initial operation and decommissioning	Each occurrence	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Reporting Requirements:

1. The facility owner or operator shall notify the Technical Manager in the following instances:
 - a) Any record showing use of any non-complying coatings shall be reported by sending a copy of such record to the Technical Manager within 30 calendar days following that use; and
 - b) At least 30 calendar days before changing the method of compliance from the use of complying coatings to daily-weighted averaging or control devices, the owner or operator shall comply with all requirements of Subparagraph (4)(a) or (5)(a) of Rule 1200-3-18-.03, respectively.

2. The facility owner or operator shall include the following information for Emission Group 1 within the Title V Semi-Annual Monitoring Report required in this permit (See Section IV, Facility-Wide Requirements, Reporting Requirements, Condition 1):
 - a) Monthly and consecutive 12-month rolling period paint, evaporative lubricant, and solvent usage for the reporting period;
 - b) The VOC and HAP content of coatings used during the reporting period, including:
 - i. Coating VOC content (lbs VOC/gal), excluding water and/or exempt compounds, as applied, for each coating (Including paint and evaporative lubricants) used within Emission Group 1 (Emission Units 3 - 7, 11 and 24 - 31); and

EMISSION GROUP 1
(Emission Units 3 - 7, 11 and 24 - 31)

Robotic Paint Booths (8) and Plate Fin Presses (42)

Reporting Requirements (continued):

- ii. HAP content (lbs HAP/gal) for each coating (Including paint and evaporative lubricants) used within Emission Group 1.
- c) Monthly and consecutive 12-month rolling period VOC and HAP emissions for the reporting period, including:
 - i. VOC and HAP emissions from Emission Group 1 and all insignificant emission units and activities in the plate fin coil shop;
 - ii. VOC emissions from the usage of evaporative lubricants on the coil fin presses (Emission Unit 7); and
 - iii. VOC emissions from the coil shop robotic paint spray booths (Emission Units 3 - 6, 11 and 24 - 31)

Local Only Requirements:

- 3. The facility owner or operator shall notify the Department within 30-days of each of the following events:
 - a) Initial operation of new aluminum condenser coil robotic paint spray booths; and
 - b) Decommissioning of existing copper condenser coil robotic paint spray booths

EMISSION GROUP 2
(Emission Units 12 - 15)

Powder Coating Operations

(Including Dryers, Ovens and Associated New Washer Line Hot Water Boiler)

Emission Limits and Restrictions

Condition No.	Pollutant	Limitation	Cite
1	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Heat input limits (Boiler, Powder Coating Lines 1 and 2, and Powder Coating Lines 3 and 4)	Operating Permits No. 00083-07B, 08B, 09B and 10B and Construction Permit No. 00083-21PC
2	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Fuel type limitation (Natural Gas)	Operating Permits No. 0083-07B, 08B, 09B and 10B and Construction Permit No. 00083-21PC
3	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Natural gas usage limitation	Construction Permit No. 00083-21PC (Limit adjusted based on 1,000 Btu/scf)
4	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Emission limits (Monthly and 12-month rolling)	Construction Permit No. 00083-21PC (Limits adjusted based on 1,000 Btu/scf and monthly average hourly limited converted to a monthly limit)
5	PM/PM ₁₀	Particulate emission standard (lbs/MMBtu)	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-6-.02]
6	SO ₂	Sulfur dioxide emission standard (lbs/MMBtu)	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-14-.02]

Emission Limits and Restrictions:

- The maximum heat input rate for fuel burning equipment within Emission Group 2 shall not exceed the following:

Table 2-1

Emission Unit	Fuel Burning Equipment Description	Maximum Heat Input Rate (Million (MM) Btu/hr)
12	New washer line natural gas-fired three staged hot water boiler (B-4)	11.5
13	Natural gas-fired dry oven	3.85
14	Natural gas-fired cure oven	5.175
15	Natural gas-fired cure oven	5.175

- Each emission unit within Emission Group 2 (Emission Units 12 - 15) is restricted to the use of only natural gas.

EMISSION GROUP 2
(Emission Units 12 - 15)

Powder Coating Operations

(Including Dryers, Ovens and Associated New Washer Line Hot Water Boiler)

Emission Limits and Restrictions (continued):

3. The maximum combined natural gas combusted by all emission units within Emission Group 2 shall not exceed 225.1 million standard cubic feet (MMscf) of natural gas per consecutive 12-month rolling period (based on 1,000 Btu/scf).
4. The maximum combined monthly and consecutive 12-month rolling emission rate of PM/PM₁₀, NO_x, SO₂, CO and VOC from Emission Group 2 shall not exceed the following:

Table 2-2

Pollutant	Monthly Limit (tons/month)	Consecutive 12-Month Rolling Limit (tons/12-months)
PM/PM ₁₀	0.07	0.86
NO _x	0.96	11.26
SO ₂	0.01	0.1
CO	0.80	9.46
VOC	0.05	0.62

5. The emission rate (E) of PM/PM₁₀ in pounds per million British Thermal Units (lbs/MMbtu) heat input from each emission unit in Emission Group 2 shall not exceed the following:

$E = 0.600$ where the total installation heat input less than or equal to 10 MMbtu/hr

$E = 0.600(10/Q)^{0.5566}$ where Q is the total installation heat input greater than 10 MMbtu/hr and less than 250 MMbtu/hr.

6. The emission rate of sulfur dioxide (SO₂) from each emission unit in Emission Group 2 shall not exceed 0.5 lbs/MMbtu.

EMISSION GROUP 2
(Emission Units 12 - 15)

Powder Coating Operations

(Including Dryers, Ovens and Associated New Washer Line Hot Water Boiler)

Monitoring, Testing and Recordkeeping Requirements

Condition No.	Pollutant	Description	Frequency	Cite
1	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Records of natural gas usage	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
2	PM/PM ₁₀	Visual emission observations	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
3	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Record of maximum designed heat input ratings	Maintained on site	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
4	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Records of emissions	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Monitoring, Testing and Recordkeeping Requirements:

1. The facility owner or operator shall maintain the following natural gas usage records for Emission Group 2:
 - a) The amount of natural gas combusted each calendar month by Emission Unit 12 (Boiler B-4); and
 - b) Monthly and consecutive 12-month rolling natural gas combusted within all of Emission Group 2.

2. The facility owner or operator shall perform and record monthly visual emission observations from the exhaust of Emission Unit 12 (Boiler B-4). Should any monthly visual observation indicate the presence of emissions, the facility owner or operator shall:
 - a) Perform and record a visual determination of opacity, in accordance with the provisions of EPA Reference Method 9, within 24 hours of discovery; or
 - b) If the detected visual emissions are the result of a malfunction that is corrected within 24 hours of detection, then the initial visual observation may be repeated. Documentation of the malfunction shall include the information required within Section VI of this permit (General Conditions).

EMISSION GROUP 2
(Emission Units 12 - 15)

Powder Coating Operations

(Including Dryers, Ovens and Associated New Washer Line Hot Water Boiler)

Monitoring, Testing and Recordkeeping Requirements (continued):

3. The facility owner or operator shall maintain records of the maximum designed heat input rating for each emission unit within Emission Group 2.
4. The facility owner or operator shall maintain monthly and consecutive 12-month rolling emission records for each pollutant regulated within Emission Group 2.

EMISSION GROUP 2
(Emission Units 12 - 15)

Powder Coating Operations
(Including Dryers, Ovens and Associated New Washer Line Hot Water Boiler)

Reporting Requirements

Condition No.	Description	Frequency	Cite
1	Monitoring report	Semi-annual	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Reporting Requirements:

1. The facility owner or operator shall include the following information for Emission Group 2 within the Title V Semi-Annual Monitoring Report required in this permit (See Section IV, Facility-Wide Requirements, Reporting Requirements, Condition 1):
 - a) Natural gas combusted by Emission Unit 12 (Boiler B-4) for each calendar month of the reporting period;
 - b) Monthly and consecutive 12-month rolling natural gas combusted within all of Emission Group 2 for the reporting period; and
 - c) Monthly and consecutive 12-month rolling emission records for each pollutant regulated within Emission Group 2 for the reporting period.

EMISSION GROUP 3
(Emission Unit 21)

Fluidized Bed Parts Cleaner

Emission Limits and Restrictions

Condition No.	Pollutant	Limitation	Cite
1	VOC	Afterburner requirement and minimum temperature	Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02 (11)(e)1(i)]; and Source Request
2	PM/PM ₁₀	Cyclone requirement	Construction Permit No. 00083-24PC
3	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Operation of Fluidized Bed Parts Cleaner	Construction Permit No. 00083-24PC
4	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Heat input limit	Construction Permit No. 00083-24PC
5	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Natural gas usage limitation	Construction Permit No. 00083-24PC
6	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Emission limits (Hourly and 12-month rolling)	Construction Permit No. 00083-24PC
7	PM/PM ₁₀	Particulate emission standard (lbs/MMBtu)	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-7-.03 and .04(1 and 2)]
8	SO ₂	Sulfur dioxide emission standard (lbs/MMBtu)	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-14-.02]

Emission Limits and Restrictions:

1. The Fluidized Bed Parts Cleaner shall be equipped with a secondary afterburner that operates at a minimum temperature of 1,450°F whenever the Fluidized Bed Parts Cleaner is in operation.
2. The Fluidized Bed Parts Cleaner shall be equipped with a cyclone that will remove particulate matter from the flue gas with a control efficiency sufficient to achieve compliance with the PM/PM₁₀ limits for Emission Group 3.
3. The Fluidized Bed Parts Cleaner (including secondary afterburner and cyclone) shall be operated in accordance with manufacturer specifications.
4. The maximum heat input rate for the Fluidized Bed Parts Cleaner shall not exceed 3.78 MM Btu/hr.
5. Fuel use shall be limited to only natural gas not to exceed 33.11 MMscf per consecutive 12-month rolling period (based on 1,000 Btu/scf).

EMISSION GROUP 3
(Emission Unit 21)

Fluidized Bed Parts Cleaner

Emission Limits and Restrictions (continued):

6. The maximum combined hourly and consecutive 12-month rolling emission rate of PM/PM₁₀, NO_x, SO₂, CO and VOC from the Fluidized Bed Parts Cleaner shall not exceed: the following:

Table 3-1

Pollutant	Hourly Limit (lbs/hr)¹	Consecutive 12-Month Rolling Limit (tons/12-months)
PM/PM ₁₀	1.13	4.95
NO _x	3.00	13.14
SO ₂	0.01	0.01
CO	0.55	2.41
VOC	0.20	0.88

¹ Monthly average

7. The maximum hourly emission rate (E) of PM/PM₁₀ from the Fluidized Bed Parts Cleaner shall not exceed the following:

$$E = 3.59 P^{0.62} \quad \text{where the process weight in tons per hour (P) is less than or equal to 30 tons per hour; and}$$

$$E = 17.31 P^{0.16} \quad \text{where P is greater than 30 tons per hour}$$

Irrespective of the maximum allowable PM/PM₁₀ emission rate as determined above, the concentration of particulate process emissions shall not be required to be less than 0.02 grains per cubic foot of stack gases or greater than 0.25 grains per cubic foot of stack gases corrected to 70°F and 1 atmosphere.

8. The emission rate of SO₂ from the Fluidized Bed Parts Cleaner shall not exceed 0.5 lbs/MMbtu.

EMISSION GROUP 3
(Emission Unit 21)

Fluidized Bed Parts Cleaner

Monitoring, Testing and Recordkeeping Requirements

Condition No.	Pollutant	Description	Frequency	Cite
1	VOC	Afterburner temperature monitoring	Continual (During each batch operation)	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
2	VOC	Afterburner temperature excursion records	Each occurrence	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
3	PM/PM ₁₀	Records of cyclone and afterburner maintenance and malfunctions	Each occurrence	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
4	PM/PM ₁₀	Visual emission observations	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
5	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Records of natural gas usage	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
6	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Record of maximum designed heat input ratings	Maintained on site	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
7	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Records of emissions	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Monitoring, Testing and Recordkeeping Requirements:

1. The facility owner or operator shall monitor the secondary afterburner operating temperature whenever the Fluidized Bed Parts Cleaner is in operation. The operating temperature shall be recorded at least one time per batch cleaning cycle.
2. The facility owner or operator shall maintain a record of each Fluidized Bed Parts Cleaner batch cleaning cycle when the secondary oxidizer combustion temperature is more than 50°F below the required minimum operating temperature.
3. The facility owner or operator shall maintain a maintenance log for the cyclone, secondary afterburner and associated monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages and/or malfunctions.

EMISSION GROUP 3
(Emission Unit 21)

Fluidized Bed Parts Cleaner

Monitoring, Testing and Recordkeeping Requirements (continued):

4. The facility owner or operator shall perform and record monthly visual emission observations from the exhaust of the Fluidized Bed Parts Cleaner cyclone during the parts cleaning cycle. Should any monthly visual observation indicate the presence of emissions, the facility owner or operator shall:
 - a) Perform and record a visual determination of opacity, in accordance with the provisions of EPA Reference Method 9, within 24 hours of discovery or during the next parts cleaning cycle; or
 - b) If the detected visual emissions are the result of a malfunction that is corrected within 24 hours of detection or prior to the next parts cleaning cycle, then the initial visual observation may be repeated. Documentation of the malfunction shall include the information required within Section VI of this permit (General Conditions).
5. The facility owner or operator shall maintain records of the amount of natural gas combusted by the Fluidized Bed Parts Cleaner for each calendar month and consecutive 12-month rolling period.
6. The facility owner or operator shall maintain records of the maximum designed heat input rating for Emission Unit 21.
7. The facility owner or operator shall maintain monthly and consecutive 12-month rolling emission records for each pollutant regulated within Emission Group 3.

EMISSION GROUP 3
(Emission Unit 21)

Fluidized Bed Parts Cleaner

Reporting Requirements

Condition No.	Description	Frequency	Cite
1	Monitoring report	Semi-annual	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Reporting Requirements:

1. The facility owner or operator shall include the following information for the Fluidized Bed Parts Cleaner within the Title V Semi-Annual Monitoring Report required in this permit (See Section IV, Facility-Wide Requirements, Reporting Requirements, Condition 1):
 - a) Monthly and consecutive 12-month rolling natural gas combusted by Emission Unit 21 for the reporting period;
 - b) Cyclone, secondary afterburner and associated monitoring equipment malfunction records (including afterburner temperature excursion records);
 - c) EPA Reference Method 9 visual determinations of opacity (if applicable); and
 - d) Monthly and consecutive 12-month rolling emission records for each pollutant regulated within Emission Group 3 for the reporting period.

EMISSION GROUP 4
(Emission Unit 20)

De-Oiler System (Thermal Cleaner)

Emission Limits and Restrictions

Condition No.	Pollutant	Limitation	Cite
1	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Heat input limit	Construction Permit No. 00083-23PC
2	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Fuel type limitation (Natural Gas)	Construction Permit No. 00083-23PC
3	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Natural gas usage limitation	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(i)]
4 ¹	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Emission limits ¹ (Monthly and 12-month rolling)	Construction Permit No. 00083-23PC; and Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(i)]
5	PM/PM ₁₀	Particulate emission standard (lbs/MMBtu)	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-7-.03 and .04(1 and 2)]
6	SO ₂	Sulfur dioxide emission standard (lbs/MMBtu)	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-14-.02]

Emission Limits and Restrictions:

1. The maximum heat input rate for the De-Oiler System (Emission Unit 20) thermal cleaner shall not exceed 8.0 MM Btu/hr.
2. The De-Oiler System thermal cleaner is restricted to the use of only natural gas as fuel.
3. The maximum natural gas combusted by the De-Oiler System thermal cleaner shall not exceed 70.1 MMscf of natural gas per consecutive 12-month rolling period (based on 1,000 Btu/scf).
4. The maximum monthly and consecutive 12-month rolling emission rate of PM/PM₁₀, NO_x, SO₂, CO and VOC¹ from the De-Oiler System shall not exceed the following:

¹The majority of VOCs associated with fin coil manufacturing flash off prior to the thermal cleaner and are accounted for within plate fin press operation (Emission Group 1). It is assumed that 100% of the plate fin lubricant oil VOC content is emitted and that precoated aluminum tubing has a minimal VOC content because it is coated off site. Carrier Corporation has provided data that indicates <5% of precoat VOCs remain on the aluminum tubing. Carrier Corporation takes no credit for potential emission reductions associated with use of the thermal cleaner (oxidizer). The primary purpose of the thermal cleaner is to reduce smoke and not that of a VOC emission control device.

EMISSION GROUP 4
(Emission Unit 20)

De-Oiler System (Thermal Cleaner)

Emission Limits and Restrictions (Continued):

Table 4-1

Pollutant	Monthly Limit (tons/month)	Consecutive 12-Month Rolling Limit (tons/12-months)
PM/PM ₁₀	0.02	0.27
NO _x	0.30	3.50
SO ₂	0.002	0.02
CO	0.25	2.94
VOC ¹	1.30	15.27

5. The maximum hourly emission rate (E) of PM/PM₁₀ from the De-Oiler System thermal cleaner shall not exceed the following:

$$E = 3.59 P^{0.62} \quad \text{where the process weight in tons per hour (P) is less than or equal to 30 tons per hour; and}$$

$$E = 17.31 P^{0.16} \quad \text{where P is greater than 30 tons per hour}$$

Irrespective of the maximum allowable PM/PM₁₀ emission rate as determined above, the concentration of particulate process emissions shall not be required to be less than 0.02 grains per cubic foot of stack gases or greater than 0.25 grains per cubic foot of stack gases corrected to 70°F and 1 atmosphere.

6. The emission rate of SO₂ from the De-Oiler System thermal cleaner shall not exceed 0.5 lbs/MMbtu.

EMISSION GROUP 4
(Emission Unit 20)

De-Oiler System (Thermal Cleaner)

Monitoring, Testing and Recordkeeping Requirements

Condition No.	Pollutant	Description	Frequency	Cite
1	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Records of natural gas usage	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
2	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Record of maximum designed heat input ratings	Maintained on site	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
3	PM/PM ₁₀	Visual emission observations	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
4	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Records of emissions	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Monitoring, Testing and Recordkeeping Requirements:

1. The facility owner or operator shall maintain records of the amount of natural gas combusted by the De-Oiler System thermal cleaner for each calendar month and consecutive 12-month rolling period.
2. The facility owner or operator shall maintain records of the maximum designed heat input rating for the De-Oiler System thermal cleaner.
3. The facility owner or operator shall perform and record monthly visual emission observations from the De-Oiler System thermal cleaner exhaust when the associated process is in operation. Should any monthly visual observation indicate the presence of emissions, the facility owner or operator shall:
 - a) Perform and record a visual determination of opacity, in accordance with the provisions of EPA Reference Method 9, within 24 hours of discovery; or
 - b) If the detected visual emissions are the result of a malfunction that is corrected within 24 hours of detection, then the initial visual observation may be repeated. Documentation of the malfunction shall include the information required within Section VI of this permit (General Conditions).
4. The facility owner or operator shall maintain monthly and consecutive 12-month rolling emission records for each pollutant regulated within Emission Group 4. Emission records shall include data distinguishing products of combustion and residual coating VOC loss.

EMISSION GROUP 4
(Emission Unit 20)

De-Oiler System (Thermal Cleaner)

Reporting Requirements

Condition No.	Description	Frequency	Cite
1	Monitoring report	Semi-annual	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Reporting Requirements:

1. The facility owner or operator shall include the following information for the De-Oiler System within the Title V Semi-Annual Monitoring Report required in this permit (See Section IV, Facility-Wide Requirements, Reporting Requirements, Condition 1):
 - a) Monthly and consecutive 12-month rolling natural gas combusted by the De-Oiler System thermal cleaner for the reporting period;
 - b) EPA Reference Method 9 visual determinations of opacity (if applicable); and
 - c) Monthly and consecutive 12-month rolling emission records for each pollutant regulated within Emission Group 4.

EMISSION GROUP 5
(Emission Unit 8)

North Remediation System

Emission Limits and Restrictions

Condition No.	Pollutant	Limitation	Cite
1	VOC	Emission limit	Operating Permit No. 0083-11P (Reduced amended VOC emission limit based Title V operating permit renewal application dated April 9, 2009)

Emission Limits and Restrictions:

1. The maximum VOC emission rate from the North Remediation System shall not exceed 4.4 tons per consecutive 12-month rolling period.

EMISSION GROUP 5
(Emission Unit 8)

North Remediation System

Monitoring, Testing and Recordkeeping Requirements

Condition No.	Pollutant	Description	Frequency	Cite
1	VOC	Sampling events	Once every two months	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
2	VOC	Sampling records and results	Once every two months	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
3	VOC	Records of emissions	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Monitoring, Testing and Recordkeeping Requirements:

1. The facility owner or operator shall conduct sampling of the North Remediation System exhaust to determine VOC emissions at least once every two months.
2. The facility owner or operator shall maintain records of the performance of each periodic sampling event (including date and flow rate) and the results (VOC concentration) of each periodic sampling event.
3. The facility owner or operator shall maintain monthly and consecutive 12-month rolling VOC emission records (including calculations) for the North Remediation System. Monthly emission rates shall be based on results from the last samplings conducted and monthly flow rates obtained.

EMISSION GROUP 5
(Emission Unit 8)

North Remediation System

Emission Limits and Restrictions

Reporting Requirements

Condition No.	Description	Frequency	Cite
1	Monitoring report	Semi-annual	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Reporting Requirements:

1. The facility owner or operator shall include the following information for the North Remediation System within the Title V Semi-Annual Monitoring Report required in this permit (See Section IV, Facility-Wide Requirements, Reporting Requirements, Condition 1):
 - a) Monthly and consecutive 12-month rolling VOC emission records

EMISSION GROUP 6
(Emission Unit 9)

Central Remediation System

Emission Limits and Restrictions

Condition No.	Pollutant	Limitation	Cite
1	HAP	Emission limit	Operating Permit No. 0083-16P

Emission Limits and Restrictions:

1. The maximum consecutive 12-month rolling period HAP emission rate from the Central Remediation System shall not exceed the following.

Table 6-1

Pollutant	Consecutive 12-Month Rolling Limit (tons/12-months)
1,1,1 Trichloroethylene	0.50
Dichloroethylenes (total)	0.04
Vinyl Chloride	0.002

EMISSION GROUP 6
(Emission Unit 9)

Central Remediation System

Monitoring, Testing and Recordkeeping Requirements

Condition No.	Pollutant	Description	Frequency	Cite
1	HAP	Sampling events	Once every two months	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
2	HAP	Records of carbon adsorption system maintenance and malfunctions	Each occurrence	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
3	HAP	Sampling records and results	Once every two months	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
4	HAP	Records of emissions	Monthly	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Monitoring, Testing and Recordkeeping Requirements:

1. The facility owner or operator shall conduct vapor sampling of the Central Remediation System exhaust to determine HAP emissions at least once every two months.
2. The facility owner or operator shall maintain records of all carbon adsorption system maintenance activities and malfunctions.
3. The facility owner or operator shall maintain records of the performance of each periodic sampling event (including date and flow rate) and the results (HAP concentration) of each periodic sampling event.
4. The facility owner or operator shall maintain monthly and consecutive 12-month rolling HAP emission records (including calculations) for the Central Remediation System. Monthly emission rates shall be based on results from the last samplings conducted and monthly flow rates obtained.

EMISSION GROUP 6
(Emission Unit 9)

Central Remediation System

Reporting Requirements

Condition No.	Description	Frequency	Cite
1	Monitoring report	Semi-annual	Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]

Reporting Requirements:

1. The facility owner or operator shall include the following information for the Central Remediation System within the Title V Semi-Annual Monitoring Report required in this permit (See Section IV, Facility-Wide Requirements, Reporting Requirements, Condition 1):
 - a) Monthly and consecutive 12-month rolling HAP emission records

EMISSION GROUP 7
(Emission Unit 22 and 23)

Emergency Generator (462 HP) and Fire Pump (132 HP) Engines

Emission Limits and Restrictions

Condition No.	Pollutant	Limitation	Cite
1	SO ₂	Diesel fuel requirement	Emergency Generator: 40 CFR Part 63, Subpart ZZZZ [§63.6604(b)] Emergency Fire Pump: 40 CFR Part 60, Subpart III [§60.4207]
2	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Non-resettable hour meter requirement	Emergency Generator: 40 CFR Part 63, Subpart ZZZZ [§ 63.6625(f)] Emergency Fire Pump: 40 CFR Part 60, Subpart III [§60.4209]
3	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Non-emergency operating hours (Allowable use)	Emergency Generator: 40 CFR Part 63, Subpart ZZZZ [§63.6640(f)] Emergency Fire Pump: 40 CFR Part 60, Subpart III [§60.4211(f)(2-3)]
4	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Non-emergency operating hours (Restriction)	Emergency Generator: 40 CFR Part 63, Subpart ZZZZ [§63.6640(f)(4)] Emergency Fire Pump: 40 CFR Part 60, Subpart III [§60.4211(f)(3)]
5	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Emergency operating hours (No limit)	Emergency Generator: 40 CFR Part 63, Subpart ZZZZ [§63.6640(f)(1)] Emergency Fire Pump: 40 CFR Part 60, Subpart III [§60.4211(f)(1)]
6	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Minimization of engine idle at start-up	40 CFR Part 63, Subpart ZZZZ [§63.6625(h)]
7	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Operation and maintenance requirements	Emergency Generator: 40 CFR Part 63, Subpart ZZZZ [§63.6625(e)] Emergency Fire Pump: 40 CFR Part 60, Subpart III [§60.4211(a and c)]
<i>Emergency Generator Only Requirements</i>			
8	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Maintenance requirements	40 CFR Part 63, Subpart ZZZZ [§63.6603(a)]
<i>Emergency Fire Pump Only Requirements</i>			
9	NMHC+NO _x , CO and PM	Emergency Fire Pump Emission Standards	40 CFR Part 60, Subpart III [§60.4205(c) and [§60.4211(c)]
<i>Local Only Requirements (Emergency Generator and Fire Pump)</i>			
10	NO _x and VOC	Prohibited testing days	Town of Collierville Code Section 96.07

EMISSION GROUP 7
(Emission Unit 22 and 23)

Emergency Generator (462 HP) and Fire Pump (132 HP) Engines

Emission Limits and Restrictions:

1. Diesel fuel used for each emergency engine shall meet the requirements of 40 CFR 80.510(b) for non-road diesel fuel.
2. Each emergency engine shall be equipped with a non-resettable hour meter.
3. Each emergency engine may be used for 100 hours per year for the following purposes:
 - a) Maintenance checks ;
 - b) Readiness testing ;
 - c) Non-emergency situations with up to 50 hours per year of maximum operation limit;
 - d) Emergency demand response for Energy Emergency Alert Level 2 situations; and
 - e) Responding to situations where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
4. The 50 hours of non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.
5. There is no time limit on the use of the emergency engines at this facility in emergency situations.
6. The facility owner or operator shall minimize emergency engine time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed thirty (30) minutes, after which time the emission standards applicable to all times other than startup apply.
7. Each emergency engine shall be installed, configured and operated according to the manufacturer's emission-related specifications and the facility owner or operator may change only those emission-related settings that are permitted by the manufacturer.

EMISSION GROUP 7
(Emission Unit 22 and 23)

Emergency Generator (462 HP) and Fire Pump (132 HP) Engines

Emission Limits and Restrictions (continued):

Emergency Generator Only Requirements:

8. The facility owner or operator shall perform the listed maintenance items on each emergency engine as per the following schedule:
 - a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
 - b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
 - c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

Emergency Fire Pump Only Requirements:

9. The Emergency Fire Pump Engine shall comply with and be certified by the manufacturer to meet the following emission standards

Table 7-1

Pollutant	Emission Standards (g/HP-hr)
NMHC + NO _x	3.0
CO	3.7
PM	0.22

Local Only Requirements (Emergency Generator and Fire Pump):

10. Testing or maintenance operation of the emergency engines at this facility is prohibited on days when the local air quality forecast shows pollutant levels are expected to exceed the health-based national ambient air quality standards for ozone or particulate matter. Daily air quality forecasts can be found at ww.airnow.gov or by contacting the Department.

EMISSION GROUP 7
(Emission Unit 22 and 23)

Emergency Generator (462 HP) and Fire Pump (132 HP) Engines

Monitoring, Testing and Recordkeeping Requirements

Condition No.	Pollutant	Description	Frequency	Cite
1	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Maintenance Records	Each event	40 CFR Part 63, Subpart ZZZZ [§63.6655(e)(3)] and Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10-.04]
2	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Operating hour records	Continuous	40 CFR Part 63, Subpart ZZZZ [§63.6655(f)] and 40 CFR Part 60, Subpart IIII [§60.4214(b)]
3	PM/PM ₁₀ , NO _x , SO ₂ , CO and VOC	Emergency operation records	Each event	40 CFR Part 63, Subpart ZZZZ [§63.6655(f)] and 40 CFR Part 60, Subpart IIII [§60.4214(b)]

Monitoring, Testing and Recordkeeping Requirements:

1. The facility owner or operator shall maintain records of the maintenance conducted on each emergency engine.
2. The facility owner or operator shall keep records of the hours of operation of each emergency engine that are recorded through the non-resettable hour meter.
3. The facility owner or operator shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

SECTION V - OTHER REQUIREMENTS

A. NUISANCE AND FUGITIVE EMISSIONS

1. The facility owner or operator shall control dust, fumes, gases, mist, vapors, or any combination thereof in such a manner as to not cause a nuisance in accordance with Town of Collierville Code Section 96.09.
2. The facility owner or operator shall not cause, suffer, allow, or permit any air contaminant source to be operated without employing suitable measures for the control of the emission of objectionable odors in accordance with Town of Collierville Code Section 96.09.
3. The facility owner or operator shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne, in accordance with Town of Collierville Code Section 96.10.

B. USE OF OZONE DEPLETING SUBSTANCES

1. The permittee shall comply with the standards for labeling of products using ozone depleting substances pursuant to 40 CFR 82 Subpart E:
 - a) All containers containing a class I or class II substance being stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106;
 - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108;
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110; and
 - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82 Subpart F, except as provided for motor vehicle air conditioners (MVAC's) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156;

- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158;
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161;
 - d) Persons disposing of small appliances, MVAC's, and MVAC-like appliances, as defined in §82.152, must comply with the record keeping requirements pursuant to §82.166;
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156; and
 - f) Owner or operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR 82 Subpart A, Production and Consumption Controls.
 4. If the permittee performs a service on motor (fleet) vehicles when this service involves Ozone-Depleting Substances (ODS) refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR 82 Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the airtight sealed refrigeration system used for refrigerated cargo, or the system used on passenger buses using HCFC-22 refrigerant.
 5. The permittee shall be allowed to switch from any ODS to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G, Significant New Alternatives Policy Program.

C. OPERATIONAL FLEXIBILITY

The permittee has not requested any specific operational flexibility provisions to be included in addition to that provided in Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(a)(4)].

D. COMPLIANCE PLANS AND SCHEDULES

There are no compliance plans or schedules included in this permit.

SECTION VI – GENERAL CONDITIONS

General Permit Conditions for Title V Operating Permits

1. Severability: The requirements of this permit issued pursuant to Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)] are severable. A dispute regarding one or more permit requirements in this permit does not invalidate or otherwise excuse a permittee from their duty to comply with the remaining portion of this permit in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(v)].

2. Permit Shield: In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)6(i)] compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issue, provided:
 - a) Such applicable requirements are included and are specifically identified in this permit; or
 - b) The Technical Manager, in acting on this permit application or revision, determines, in writing, that other requirements specifically identified are not applicable to the source, and this permit includes the determination or a concise summary thereof; and
 - c) The permit shield does not extend to minor permit modifications made pursuant to Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(f)5.(ii)(VI)].

3. Permit Actions for Cause: This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(vi)(III)].

4. Circumvention of Regulations: No person shall use any plan, activity, device or contrivance that the Technical Manager determines will, without resulting in an actual reduction of air contaminants, conceal or appear to minimize the effects of an emission that would otherwise constitute a violation of this permit or any applicable requirement.

Methods considered circumvention of the regulations, as stated in Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.03(2)], include but are not limited to:

- a) Air (or other gases) introduced for dilution purposes only; and

General Permit Conditions (continued)

- b) The staggered installation and operation of a facility to avoid coverage by a standard that applies only to operations larger than a specified size.
5. Creating a Traffic Hazard or Interfering with Public Transportation: No person shall discharge from any source whatsoever such quantities of air contaminant, uncombined water, or other materials which cause or have a tendency to cause a traffic hazard or an interference with normal means of public transportation in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.03(3)].
6. Defense for Noncompliance: The need to halt or reduce activity is not a defense for noncompliance. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this item shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in assessing penalties for noncompliance if the health, safety or environmental impacts of halting or reducing operations would be more serious than the impacts of continuing operations in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(vi)(II)].
7. Compliance Certification: All compliance certifications submitted to the Department shall include the following in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)3(v)(III)]:
- a) The identification of each term or condition of this permit that is the basis of the certification;
 - b) The compliance status of each term or condition of this permit during the certification period;
 - c) Whether compliance was continuous or intermittent;
 - d) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(iii)] [Monitoring and related record keeping and reporting requirements]; and
 - e) Such other facts as the Technical Manager may require for determination of the compliance status of the source.
8. Compliance Certification: All compliance certifications required by this permit shall be submitted to the EPA as well as to the Technical Manager in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)3(v)(IV)].

General Permit Conditions (continued)

9. Compliance Certification: Each compliance certification required by this permit shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Federal Act [Permit Requirements and Conditions: Monitoring and Analysis], and any other compliance requirement deemed necessary by the Technical Manager in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)3(v)(V) and -.02(11)(e)3(vi)].
10. Responsible Official Certification: Any application form, report, or compliance certification submitted pursuant to the requirements of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)] or this permit shall contain certification by a responsible official of truth, accuracy and completeness. This certification and any other certification required under Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(d)4] shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
11. Enforceability: This permit is issued pursuant to the requirements of Title V of the Federal Act and its implementing Federal regulations promulgated at 40 CFR part 70. As such, the permittee is advised that:
 - a) All terms and conditions in this permit including any provisions designed to limit a source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)]; and
 - b) Notwithstanding (a) above, in this permit labeled "local only requirements" the Technical Manager has specifically designated as not being federally enforceable under the Federal Act or under any of its applicable requirements.

Terms and conditions so designated are not subject to the requirements of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11) subparagraphs (f) {Permit Issuance, Renewal, Reopening and Revision} and (g) {Permit Review by EPA and Affected States}, other than those contained in part 1200-3-9-.02(11)(e)2].
12. Federal Enforcement; SECTION 113(c)(2) of the Federal Act: Any person who knowingly makes any false material statement, representation, or certification in, or omits material information from, or knowingly alters, conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required pursuant to this Act to be either filed or maintained (whether with respect to the requirements imposed by the Administrator or by a State or the Department); fails to notify or report as required under the Act; or falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required to be maintained or followed under this Act shall, upon conviction, be punished by a fine pursuant to title 18 of the United States Code, or by

General Permit Conditions (continued)

imprisonment for not more than 2 years, or both. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment.

13. Reasonable Measures Required During Startups, Shutdowns, and Malfunctions: In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-20-.02], Air contaminant sources must take all reasonable measures to keep emissions to a minimum during startups, shutdowns, and malfunctions. These measures may include installation and use of alternate control systems, changes in operating methods or procedures, cessation of operation until the process equipment and/or air pollution control equipment is repaired, maintaining sufficient spare parts, use of overtime labor, use of outside consultants and contractors, and other appropriate means. Failures that are caused by poor maintenance, careless operation or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions, and shall be considered in violation of the emission standard exceeded and this rule.
14. Notice Required When a Malfunction Occurs: In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-20-.03], when any air contaminant source malfunctions in such a manner as to cause the emission of air contaminants in excess of the applicable emission standards contained in Division 1200-3 or any permit issued thereto, or of sufficient duration to cause damage to property or public health, the owner or operator of the air contaminant source shall promptly notify the Technical Manager of such malfunction and provide a statement giving all pertinent facts, including the estimated duration of the malfunction.

Violations of the visible emission standard (excluding visible emissions caused by hazardous air pollutants named in Chapter 1200-3-11), which occur for less than 20 minutes in one day (midnight to midnight) need not be reported.

Prompt notification will be within 24 hours of the malfunction and shall be provided by telephone to the Shelby County Health Department, Pollution Control Section.

The Technical Manager shall be notified when the malfunction has been corrected. In attainment and unclassified areas if emissions other than from sources designated as significantly impacting on a nonattainment area in excess of the standards will not and do not occur over more than a 24-hour period (or will not recur over more than a 24-hour period) and no damage to property and or public health is anticipated, notification is not required.

Any malfunction that creates an imminent hazard to health must be reported by telephone immediately to the Shelby County Health Department, Pollution Control Section and the Emergency Management Agency.

General Permit Conditions (continued)

15. Log of Malfunctions, Startups, and Shutdowns: In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-20-.04], a log of all malfunctions, startups, and shutdowns resulting in emissions in excess of the standards in the Town of Collierville Code, reference 1200-3 of the State of Tennessee Code, or any permit issued thereto must be kept at the facility. This log must record at least the following:
- a) Stack or emission point involved;
 - b) Time of malfunction, startup, or shutdown or when first noticed.
 - c) Type of malfunction and/or reason for shutdown;
 - d) Time startup or shutdown was complete or time the air contaminant source returned to normal operation; and
 - e) The company employee making entry on the log must sign, date and state the time of each log entry.

The information under items (a) and (b) above must be entered into the log by the end of the shift during which the malfunction or startup began. All information shall be entered in the log no later than twenty-four (24) hours after the startup or shutdown is complete, or the malfunction has ceased or has been corrected. Any later discovered corrections can be added in the log as footnotes with the reason given for the change.

16. Retention Period for Records and Supporting Information: Records and supporting information required to be maintained by this permit shall be retained for a period of at least five (5) years from the date of the record in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(iii)(II)II]. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.
17. Monitoring Records: Records of monitoring information required by this permit shall include the following :
- a) The date, place as defined in this permit, and time of sampling or measurements;
 - b) The date(s) analyses were performed;
 - c) The company or entity that performed the analysis;
 - d) The analytical techniques or methods used;

General Permit Conditions (continued)

- e) The results of such analyses; and
 - f) The operating conditions as existing at the time of sampling or measurement.
18. Information Requests: In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(vi)(V)], the permittee shall furnish to the Technical Manager, within a reasonable time, any information that the Technical Manager may request in writing to determine whether cause exists for modifying, revoking and reissuing, or termination of this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Technical Manager copies of records required to be kept by this permit. If the permittee claims that such information is confidential, the Technical Manager may review that claim and hold the information in protected status until such time that the Board can hear any contested proceedings regarding confidentiality disputes. If the Administrator (EPA) desires the information, the permittee may mail the information directly to the EPA.
19. Access to Premises, Records, and Inspections: Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Technical Manager or his authorized representative to perform the following for the purposes of determining compliance with the applicable permit requirements in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)3(ii)]:
- a) Enter upon the permittee's premises at reasonable times where a source subject to Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)] is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
 - d) As authorized by Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10], sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

Reasonable times" shall be considered to be customary business hours unless reasonable cause exists to suspect noncompliance with the Act, Town of Collierville Code, Division 1200-3, or any permit issued pursuant thereto and the Technical Manager specifically authorizes an inspector to inspect a facility at any other time.

General Permit Conditions (continued)

20. Permit Availability and Display: The owner or operator shall maintain this operating permit readily available for inspection by the Technical Manager or his/her designated representative on the operating premises. A person required by regulations to have one or more operating permits shall keep at least one operating permit prominently and conspicuously displayed on the operating premises in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(5)].
21. Emergency Orders, Liabilities, and Acid Rain: Nothing in this permit issued pursuant to Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)6(iii)] shall alter or affect the following:
- a) The provisions of section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section. Similarly, the provisions of T.C.A. 68-201-109 (emergency orders) including the authority of the Governor under Collierville Code Section 96.07 [Reference Shelby County Air Code Section 16-59] including the authority of the Health Officer under the section;
 - b) The liability of the owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issue;
 - c) The applicable requirements of the acid rain program, consistent with section 408(a) [Permits and Compliance Plans: Permit Program] of the Federal Act; or
 - d) The ability of EPA and the Department to obtain information from a source pursuant to section 114 [Recordkeeping, Inspection, Monitoring, and Entry] of the Federal Act.
22. Emergency Provisions: In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)7] an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology based emission limitation under this permit due to unavoidable increases in emissions attributable to the emergency.

An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

An emergency constitutes an affirmative defense to an enforcement action brought against a source for noncompliance with such technology based emission limitations if the following are met.

General Permit Conditions (continued)

- a) The affirmative defense of the emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An emergency occurred and that the permittee can identify the probable cause(s) of the emergency. "Probable" must be supported by a credible investigation into the incident that seeks to identify the causes and results in an explanation supported by generally accepted engineering or scientific principles;
 - ii. The permitted facility was at the time being properly operated. In determining whether or not a facility was being properly operated, the Technical Manager shall examine the source's written standard operating procedures that were in effect at the time of the noncompliance and any other code as detailed below that would be relevant to preventing the noncompliance. Adherence to the source's standard operating procedures will be the test of adequate preventative maintenance, careless operation, improper operation or operator error to the extent that such adherence would prevent noncompliance. The source's failure to follow recognized standards of practice to the extent that adherence to such a standard would have prevented noncompliance will disqualify the source from any claim of an emergency and an affirmative defense. The Department will specifically recognize the National Fire Protection Association codes, the codes of the American National Standards Institute, the codes of the American Society of Testing Materials, the codes of the United States Department of Transportation, the codes of the United States Occupational Safety and Health Administration and any State of Tennessee statute or regulation if applicable. Recognition of these codes, statutes, regulations and standards of practice is limited to the test of determining whether or not a facility was operated properly for the purposes of preventing actual (not potential) noncompliance and in no way should it be viewed as the Department's imposition of the standards administered by other agencies, Boards, or organizations;
 - iii. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit; and
 - iv. The permittee submitted notice of the emergency to the Technical Manager according to the notification criteria for malfunctions in Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-20-.03].

General Permit Conditions (continued)

For the purposes of this item in the Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)7(iii)(IV)], "emergency" shall be substituted for "malfunctions(s)" in rule 1200-3-20-.03 to determine the relevant notification threshold. The notice shall include a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

- b) In any enforcement proceeding this permittee seeking to establish the occurrence of an emergency has the burden of proof; and
 - c) These provisions are in addition to any emergency, malfunction or upset requirement contained in this permit, Town of Collierville Code, Division 1200-3, or other applicable requirement.
23. Air Pollutant Episode Emissions Reduction Plan: This source may be required to submit an acceptable air pollutant episode emissions reduction plan in accordance with Shelby County Air Code Section 3-14 [Reference Rules and Regulations of Tennessee, Rule 1200-3-15] detailing steps that can be taken to relieve a health hazard in the event that the Technical manager declares an air pollution alert, air pollution warning, or air pollution emergency. In the event that this plan is required, the source shall be notified in writing, and shall have thirty days to submit required the plan.
24. Air Pollution Alerts, Warnings, and Emergencies: In the event that the Technical Manager declares an air pollution alert, air pollution warning, or air pollution emergency, this source may be required to cease, curtail, postpone or defer production and allied operations to the extent possible without causing injury to persons or damage to equipment in accordance with Shelby County Air Code Section 3-14 [Reference Rules and Regulations of Tennessee, Rule 1200-3-15].
25. Duty to File Accidental Release Plans:
Pursuant to Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-32-.03]:
- a) Sources which are subject to the provisions of Section 112(r) of the federal Clean Air Act or any federal regulations promulgated thereunder, must file a copy of any plan or submittal required therein with the Technical Manager. If such a source is subject to the permitting requirements of Paragraph 1200-3-9-.02(11) and has failed to timely file their plan with the United States Environmental Protection Agency, the Technical Manager shall place them on a schedule of compliance to develop and file the plan. The schedule of compliance shall be placed on the source's operating permit consistent with the provisions of Subpart 1200-3-9-.02(11)(e)3(iii).

General Permit Conditions (continued)

- b) The Technical Manager is specifically authorized to request information from sources for the purpose of determining whether or not they are subject to Section 112(r) of the federal Clean Air Act or any federal regulations promulgated thereunder.
- c) Sources that have filed an accidental release plan shall annually certify in writing to the Technical Manager that they are properly following their accidental release plan. The annual certification is due in the office of the Technical Manager no later than January 31 of each year. Said certification will be for the preceding calendar year.

26. Operational Flexibility: In accordance with Town of Collierville Code Section 96.02 [1200-3-9-.02(11)(a)4] the owner or operator may make certain changes at their facility that are contrary to or not addressed by this permit. The following changes can be made by the permittee without requiring a permit revision, if the changes are not modifications under Title I of the Federal Act or Division 1200—3 and the changes do not exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in the terms of total emissions), provided, that the facility provides the Administrator and Technical Manager with written notification as required below in advance of the proposed changes, which shall be a minimum of 7 days. The Technical Manager may waive the 7-day advance notice in instances where the source demonstrates in writing that an emergency necessitates the change. Emergency shall be demonstrated by the criteria of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)7] (Emergency Provisions) and in no way shall it include changes solely to take advantages of an unforeseen business opportunity. The source, Technical Manager and EPA shall attach each such notice to their copy of the relevant permit.

- a) The owner or operator may make a Section 502(b)(10) [as described above in this condition] change if their written notification contains a brief description of the change within the permitted facility; specifies the date on which the change will occur; declares any change in emissions; and declares any permit term or condition that is no longer applicable as a result of the change.

These permit shield provisions of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)6] shall not apply to Section 502(b)(10) changes; and

- b) The source may make operational flexibility changes that are not addressed or prohibited by this permit without a permit revision subject to the following requirements:
 - i. The change cannot be subject to a requirement of Title IV of the Federal Act or Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-30 (Acid Precipitation Standard)];

General Permit Conditions (continued)

- ii. The change cannot be a modification under any provision of Title I of the Federal Act or Division 1200-3;
 - iii. Each change shall meet all applicable requirements and shall not violate any existing permit term or condition;
 - iv. The owner or operator must provide contemporaneous written notice to the Technical Manager and EPA of each such change, except for changes that are below the threshold of insignificant activities and emission levels that are specified in Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.04];
 - v. Each change shall be described in the notice including the date, any change in emissions, pollutants emitted, and any applicable requirements that would apply as a result of the change;
 - vi. The change shall not qualify for a permit shield under the provisions of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)6]; and
 - vii. The permittee shall keep a record describing the changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes. The records shall be retained until the changes are incorporated into subsequently issued permits.
27. Construction Permits: In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.01(1)(a)], no person shall begin the construction of a new air contaminant source or the modification of an air contaminant source which may result in the discharge of air contaminants without first having applied for and received from the Technical Manager a construction permit for the construction or modification of such air contaminant source, except as specifically exempted in Rule 1200-3-9-.04 or excluded in subparagraph 1200-3-2-.01(1)(aa) or subparagraph 1200-3-2-.01(1)(cc).
28. Construction Permits: In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.01(1)(b)], the application for a construction permit shall be made on forms available from the Technical Manager not less than ninety (90) days prior to the estimated starting date of construction.

Sources identified in Paragraph 1200-3-9-.01(4) shall make application for a construction permit not less than one hundred twenty (120) days prior to the estimated date of construction.

General Permit Conditions (continued)

29. New Construction or Modifications: Construction or modification at this source that is subject to the provisions of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.01] shall be governed by the following:
- a) The permittee shall designate in their construction permit application the route that they desire to follow for the purposes of incorporating the newly constructed or modified sources into their existing operating permit. The Technical Manager shall use that information to prepare the operating permit application submittal deadlines in their construction permit;
 - b) Sources desiring the permit shield shall choose the administrative amendment route of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(f)4] or the significant modification route of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(f)5(iv)]; and
 - c) Sources desiring expediency instead of the permit shield shall choose the minor permit modification procedure route of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(f)5(ii)] or group processing of minor modifications under the provisions of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(f)5(iii)] as applicable to the magnitude of their construction. (Reference Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(d) 1(i)(V)]).
30. Permit Renewal and Expiration: In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(d)1(i)(III)], a timely renewal application is one that is submitted at least 180 days, but no more than 270 days prior to the expiration date of this major source operating permit. In accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(f)3] permits that are being renewed are subject to the same procedural requirements, including those for public participation, affected State and EPA review, that apply to initial permit issuance. Consistent with the provisions Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(a)2] permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(f)2] (Requirement for a Permit) and item 1200-3-9-.02(11)(d)1(i)(III)].
31. Permit Application Errors: The owner or operator of this source has a duty to supplement or correct their application upon discovery that their application was incorrect or failed otherwise to address any facts relevant to permitting at the source.

General Permit Conditions (continued)

The applicant must also provide additional information as necessary to address any requirements that become applicable to the source after the date that it has filed a complete application but prior to the release of a draft permit. Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(d)2].

32. Permit Transference: This permit is not transferable from one person to another person, nor from one air contaminant source to another air contaminant source, nor from one location to another location in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.03(6)].
33. Changes Not Requiring Permit Modification: The owner or operator of any air contaminant source to which any of the following changes are made, but would not be a modification requiring a construction permit, must notify the Technical Manager thirty (30) days before the change is commenced.

Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(7)] defines these changes as:

- a) change in air pollution control equipment;
 - b) change in stack height or diameter; and
 - c) change in exit velocity (of more than twenty five (25%) percent) or exit temperature of more than fifteen (15%) percent (absolute temperature basis).
34. New Applicable Requirements: Additional applicable requirements under the Clean Air Act become applicable to a major part 70 source with a remaining permit term of three (3) or more years. Such a permit reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening of the permit is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 70.4(b)(10)(i) or (ii).
 35. Emissions Testing: The owner or operator may be required to conduct or have conducted at his expense, tests to determine the emission level of specific air contaminants. Such tests shall be conducted in a manner approved by the Technical Manager. The Department requires a 30-day notice of the scheduling of emissions tests in order that such tests are conducted in the presence of a representative in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-10].
 36. Asbestos: Prior to the commencement of a demolition or renovation project involving asbestos, the owner or operator shall comply with the requirements of Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-11-.02(2)(d)].

General Permit Conditions (continued)

No owner or operator of a facility may install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Disposal of asbestos shall be performed in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-11-.02(2)(j)].

37. Open Burning: The open burning of residential, commercial, institutional, or industrial solid waste is prohibited except as specified in this permit or in Town of Collierville Code Section 96.03.
38. Fees: The permittee shall pay fees in accordance with Town of Collierville Code Sections 96.26 through 96.28.
39. Property Rights: This permit does not convey any property rights of any sort, or any exclusive privilege in accordance with Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.02(11)(e)1(vi)(IV)].

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Appendix A

Insignificant Activities

INSIGNIFICANT ACTIVITIES

The applicant deems the following activities and emission sources as insignificant (permit exempt). See Town of Collierville Code Section 96.02 [Reference Rules and Regulations of Tennessee, Rule 1200-3-9-.04]:

No.	Source Description	Cite
1	Autobrazers	1200-3-9-.04(4)(d)5.
2	6,800 gallon evaporative lubricant storage tank	1200-3-9-.04(d)12.
3	Surface coating and degreasing operations which do not exceed a combined total usage of more than 60 gallons/month of coatings, thinners, clean-up solvents, and degreasing solvents at any one plant location, and does not exceed 1,000 pounds per year of each hazardous air pollutant	1200-3-9-.04(4)(d)15.
4	Line purging and pressure testing	1200-3-9-.04(5)(a)4.(i)
5	Chillers for comfort air conditioning	1200-3-9-.04(5)(a)4.(i)
6	Gasket preparation	1200-3-9-.04(5)(a)4.(i)
7	Container stenciling	1200-3-9-.04(5)(a)4.(i)
8	Manual assembly of air conditioners	1200-3-9-.04(5)(a)4.(i)
9	Use of lubricants in assembly	1200-3-9-.04(5)(a)4.(i)
10	Use of inert gases and lubricants for maintenance purposes	1200-3-9-.04(5)(a)4.(i)
11	Use of ink for marking sheet steel	1200-3-9-.04(5)(a)4.(i)
12	Parts washer and die vat	1200-3-9-.04(5)(a)4(i)
13	0.09 MMBtu/hr natural gas-fired plasma unit used for hair pin degreasing ¹	1200-3-9-.04(5)(a)4(i)
14	Unpaved facility parking areas	1200-3-9-.04(5)(f)1
15	Paved facility parking areas	1200-3-9-.04(5)(f)2
16	Vacuum pump exhausts when evacuating air conditioning units that are not subject to any standard or other requirement of the regulations promulgated to protect stratospheric ozone under title VI of the Federal Act	1200-3-9-.04(5)(f)5
17	Combustion units designed and used exclusively for comfort heating purposes employing liquid petroleum gas, or natural gas as fuel	1200-3-9-.04(5)(f)14
18	Water tanks, reservoirs, or other water containers designed to cool, store, or otherwise handle water that has not been used in direct contact with gaseous or liquid process streams containing carbon compounds, sulfur compounds, halogens or halogen compounds, cyanide compounds, inorganic acids, or acid gases	1200-3-9-.04(5)(f)15
19	Gasoline, diesel fuel, and fuel oil handling equipment in the battery charging room and air compressor/chiller room, and storage tanks not subject to new source performance standards or the standards in Chapter 1200-3-18	1200-3-9-.04(5)(f)17
20	Laboratory equipment, used for research and development or for chemical and physical analyses, including ventilating and exhaust systems for laboratory hoods used for air contaminants	1200-3-9-.04(5)(f)19
21	Portable, hand operated brazing, soldering, or welding equipment.	1200-3-9-.04(5)(f)21
22	Equipment used for washing or drying products fabricated from metal or glass, provided no volatile organic compounds (solvents) are used in the process and that no oil or solid fuel is burned (Zinc Phosphate washers)	1200-3-9-.04(5)(f)22
23	Portable equipment for on-site painting (Facility-wide maintenance)	1200-3-9-.04(5)(f)35

24	Powder Coating Operations	1200-3-9-.04(5)(f)36
25	Clean stem condensate and steam relief vents where steam has not contacted any process organics or other production materials	1200-3-9-.04(5)(f)41
26	Herbicide/pesticide mixing, application, and storage activities for onsite use	1200-3-9-.04(5)(f)44
27	Maintenance activities, such as: machining of metals and plastic curing for non-production related operations, carpenter shops, spraying, grinding and polishing operations, maintenance shop vents, and miscellaneous non-production surface cleaning preparation, and painting operations. Also, repairs not involving structural changes where no new or permanent stationary source is installed (Facility-wide maintenance)	1200-3-9-.04(5)(f)45
28	Miscellaneous activities and equipment, such as: aerosol spray cans, cafeteria vents, locker room vents, photo copying, photographic processes, blue print machines, decommissioned equipment, solid waste dumpsters, fires training, and space heaters. Miscellaneous means as being unrelated to the primary business activity of the source (Facility-wide maintenance)	1200-3-9-.04(5)(f)46
29	Equipment used exclusively for rolling, forging, pressing, stamping, spinning, or extruding either hot or cold metals (Press Room)	1200-3-9-.04(5)(f)54
30	Warehouse storage of packaged raw materials and finished goods, emitting no hazardous pollutants.	1200-3-9-.04(5)(f)60
31	Transformers	1200-3-9-.04(5)(f)61
32	Groundwater Monitoring Wells	1200-3-9-.04(5)(f)62
33	Lubricants and waxes used for machinery lubrication	1200-3-9-.04(5)(f)63
34	Equipment used to transport or store process wastewater streams to a wastewater treatment facility (floor drains, sumps, drain headers, manhole covers)	1200-3-9-.04(5)(f)69
35	Vacuum producing equipment including vacuum seal pots and vacuum pumps.	1200-3-9-.04(5)(f)71
36	Storage tanks of any size containing exclusively soaps, detergents, surfactants, aqueous salt solutions or aqueous caustic solutions provided an organic solvent has not been mixed with such material (Wastewater treatment system)	1200-3-9-.04(5)(f)80
37	Sulfuric acid tanks (Wastewater treatment system)	1200-3-9-.04(5)(f)87
38	Phosphoric acid tanks (Wastewater treatment system)	1200-3-9-.04(5)(f)89
39	Architectural, structural and maintenance coating operations in which the articles are being coated in place (Facility-wide maintenance)	1200-3-9-.04(5)(f)99
40	Combustion emissions from propulsion of mobile sources (Forklifts)	1200-3-9-.04(5)(g)1
41	Air-conditioning units used for human comfort that do not have applicable requirements under title VI of the Act	1200-3-9-.04(5)(g)2
42	Ventilating units used for human comfort that do not exhaust air pollutants into the ambient air from any manufacturing/industrial or commercial process	1200-3-9-.04(5)(g)3
42	Non-commercial food preparation (Cafeteria)	1200-3-9-.04(5)(g)4
44	Consumer use of office equipment and products	1200-3-9-.04(5)(g)5
45	Janitorial services and consumer use of janitorial products	1200-3-9-.04(5)(g)6
46	Bathroom/toilet vent emissions	1200-3-9-.04(5)(g)9
47	Plant maintenance and upkeep activities (Grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots)	1200-3-9-.04(5)(g)13

48	Air compressors and pneumatically operated equipment, including hand tools (Air compressor/chiller room)	1200-3-9-.04(5)(g)18
49	Batteries and battery charging stations, except at battery manufacturing plants. (Battery charging room)	1200-3-9-.04(5)(g)19
50	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities	1200-3-9-.04(5)(g)26
51	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation (Assembly line wood glue application)	1200-3-9-.04(5)(g)27
52	Boiler water treatment operations	1200-3-9-.04(5)(g)45

¹ Added to insignificant activities list on May 29, 2020

Appendix B

Applicable Requirements

Carrier Corporation
(Title V Operating Permit No. 00083-01TV(R))

State and Local Applicable Requirements Overview

TDEC/Shelby/Memphis/Collierville	Description	Applicable Req.	Notes
CHAPTER 1200-3-2(3-1A)(16-46) (96.02)	DEFINITIONS		
1200-3-2-.01	General Definitions	Not Applicable (NA)	Defines terms used in chapter
1200-3-2-.02	Abbreviations	NA	
CHAPTER 1200-3-3(3-6)(16-49) (96.02)	AMBIENT AIR QUALITY STANDARDS		
1200-3-3-.01	Primary Air Quality Standard	Yes	Contains general requirements
1200-3-3-.02	Secondary Air Quality Standard	Yes	Contains general requirements
1200-3-3-.03	Tennessee's Ambient Air Quality Standard	Yes	Contains general requirements
1200-3-3-.04	Nondegradation Standard	Yes	Contains general requirements
CHAPTER 1200-3-5(3-17)(16-83) (96.02)	VISIBLE EMISSIONS		
1200-3-5-.01	General Standards	Yes	Contains specific requirements applicable facility-wide
1200-3-5-.02	Exceptions	Yes	Contains general requirements
1200-3-5-.03	Method of Recording	Yes	Contains specific requirements applicable facility-wide
1200-3-5-.04	Exemption	Yes	Contains specific requirements applicable facility-wide
CHAPTER 1200-3-6(3-21)(16-79) (96.02)	NON-PROCESS EMISSION STANDARDS (PM)		
1200-3-6-.01	General Non-Process Emissions	Yes	
1200-3-6-.02	Non-Process Particulate Emission Standards	Yes	Combustion gases from the burners associated with the De-oiler (EU-20) and the new Fluidized Bed Parts Cleaner (EU-21) are comingled with process emissions and are therefore subject to the process emission standards. Boiler B-4 (EU-12) and Powder Coating Ovens (EU-13 through 15) are subject to this standard.
CHAPTER 1200-3-7(3-20)(16-78) (96.02)	PROCESS EMISSION STANDARDS (PM)		
1200-3-7-.01	General Process Particulate Emission Standards	Yes	Contains general requirements
1200-3-7-.03	New Processes	Yes	Contains specific requirements applicable to EU-3 through 9, EU-11, EU-20, EU-21 and EU-24
1200-3-7-.04	Limiting Allowable Emissions	Yes	Contains specific requirements applicable to EU-3 through 9, EU-11, EU-20, EU-21 and EU-24

CHAPTER 1200-3-9(3-5)(16-77) (96.02)	CONSTRUCTION AND OPERATING PERMITS		
1200-3-9-.01	Construction Permits	Yes	Contains general requirements
1200-3-9-.02	Operating Permits	Yes	Contains general requirements
1200-3-9-.03	General Provisions	Yes	Contains general requirements
1200-3-9-.04	Exemptions	Yes	Contains general requirements
1200-3-9-.05	Appeal of Permit Application Denials and Permit Conditions	Yes	Contains general requirements
CHAPTER 1200-3-10(3-7)(16-85) (96.02)	REQUIRED SAMPLING, RECORDING, AND REPORTING		
1200-3-10-.01	Sampling Required to Establish Air Contaminant Emissions Levels	Yes	Contains general requirements
1200-3-10-.02	Monitoring of Source Emissions, Recording and Reporting of Same are Required	Yes	Contains general requirements
1200-3-10-.04	Sampling, Recording and Reporting Required for Major Stationary Sources	Yes	Contains general requirements
CHAPTER 1200-3-11(3-25)(16-81)(96.02)	HAZARDOUS AIR CONTAMINANTS	NA	
CHAPTER 1200-3-12(3-8)(16-86) (96.02)	METHODS OF SAMPLING AND ANALYSIS		
1200-3-12.01	General	Yes	Contains general requirements
1200-3-12-.02	Procedures for Ambient Air Sampling and Analysis	Yes	Contains general requirements
1200-3-12-.03	Source Sampling and Analysis	Yes	Contains general requirements
CHAPTER 1200-3-15(3-14)(16-60) (96.02)	EMERGENCY EPISODE PLAN		
1200-3-15-.01 and .02	Purpose and Episode Criteria	Yes	Applicable for providing the definition of purpose and terms
1200-3-15-.03	Required Emissions Reduction	Yes	Contains general requirements
CHAPTER 1200-3-14(3-24)(16-82) (96.02)	SULFUR OXIDE EMISSIONS		
1200-3-14-.01	General Provisions	Yes	Contains general requirements
1200-3-14.02	Non-Process Emission Standards	Yes	Contains specific requirements applicable to Boiler B-4 (EU-12) and the Powder Coating Ovens (EU-13 through 15).
1200-3-14-.03	Process Emission Standards	Yes	Contains specific requirements applicable to the De-oiler (EU-20) and the Fluidized Bed Parts Cleaner (EU-21). SO ₂ emissions are only associated with the combustion of natural gas.

CHAPTER 1200-3-16(3-15)(16-76) (96.02)	NEW SOURCE PERFORMANCE STANDARDS	NA	
CHAPTER 1200-3-18(3-22)(16-80) (96.02)	VOLATILE ORGANIC COMPOUNDS		
1200-3-18-.01	Definitions	NA	Defines terms used in chapter
1200-3-18-.02	General Provisions and Applicability	Yes	Contains general requirements
1200-3-18-.03	Compliance Certification, Record Keeping, and Reporting Requirements for Coating and Printing Sources	Yes	Contains general requirements
1200-3-18-.06	Handling, Storage, and Disposal of Volatile Organic Compounds (VOCs)	Yes	Contains general requirements
1200-3-18-.18	Coating of Large Appliances	Yes	Contains specific requirements applicable to Robotic Paint Booth Lines 1 - 5 and 8 (EU-3 through 6, 11 and 24) and Fin Press Operations (EU-7).
1200-3-18-.80	Test Methods and Compliance Procedures: General Provisions	Yes	Contains general requirements applicable EU-3 through 7, 11 and 24
1200-3-18-.81	Test Methods and Compliance Procedures: Determining the VOC Content of Coatings and Inks	Yes	Contains general requirements applicable EU-3 through 7, 11 and 24
1200-3-18-.82	Test Methods and Compliance Procedures: Alternative Compliance Methods for Surface Coating	Yes	Contains general requirements applicable EU-3 through 7, 11 and 24
1200-3-18-.83	Test Methods and Compliance Procedures: Emission Capture and Destruction of Removal Efficiency and Monitoring Requirements	Yes	Contains general requirements applicable EU-3 through 7, 11 and 24
1200-3-18-.84	Test Methods and Compliance Procedures: Determining the Destruction or Removal Efficiency of a Control Device	Yes	Contains general requirements applicable EU-3 through 7, 11 and 24
CHAPTER 1200-3-20(3-9)(16-87) (96.02)	LIMITS ON EMISSIONS DUE TO MALFUNCTIONS, STARTUPS, AND SHUTDOWNS		
1200-3-20-.02	Reasonable Measures Required	Yes	Contains general requirements
1200-3-20-.03	Notice Required When Malfunction Occurs	Yes	Contains general requirements
1200-3-20-.04	Logs and Reports	Yes	Contains general requirements
1200-3-20-.05	Copies of Logs Required	Yes	Contains general requirements
1200-3-20-.06	Report Required Upon the Issuance of a Notice of Violation	Yes	Contains general requirements
1200-3-20-.07	Special Reports Required	Yes	Contains general requirements
1200-3-20-.08	Rights Reserved	Yes	Contains general requirements
1200-3-20-.09	Additional Sources Covered	Yes	Contains general requirements

CHAPTER 1200-3-21(3-28)(16-90) (96.02)	GENERAL ALTERNATE EMISSION STANDARDS	NA	
CHAPTER 1200-3-22(3-29)(16-91) (96.02)	LEAD EMISSION STANDARDS	NA	
CHAPTER 1200-3-24(3-40)(16-52) (96.02)	GOOD ENGINEERING PRACTICE STACK HEIGHT REGULATIONS		
1200-3-24-.01	General Provisions	Yes	Contains general requirements
1200-3-24-.02	Definitions	Yes	Contains general requirements
1200-3-24-.03	Good Engineering Practice Stack Height Standards	Yes	Contains general requirements
1200-3-24-.04	Specific Emission Standards	Yes	Contains general requirements
CHAPTER 1200-3-25(3-39)(16-91.1)(96.02)	STANDARDS FOR INFECTIOUS WASTE INCINERATORS	NA	
CHAPTER 1200-3-30(3-36)(16-91.2)(96.02)	ACIDIC PRECIPITATION CONTROL	NA	
CHAPTER 1200-3-31(3-37)(16.91.3)(96.02)	CASE BY CASE DETERMINATIONS OF HAZARDOUS AIR POLLUTANT CONTROL REQUIREMENTS	NA	
CHAPTER 1200-3-32(3-38)(16-91.4)(96.02)	PREVENTION OF ACCIDENTAL RELEASES		
1200-3-32-.01	Purpose and Intent	Yes	Contains general requirements
1200-3-32-.02	Definitions	Yes	Contains general requirements
OTHER (LOCAL ONLY)			
(3-2)(16-56)(96.05)	Enforcement - Violations of Chapter - Notice; Citation; Injunctive Relief	Yes	Contains general requirements
(3-3)(16-57)(96.99)	Penalties - Misdemeanor, Civil, and Noncompliance	Yes	Contains general requirements
(3-4)(16-59)(96.07)	Enforcement - Emergency Powers of Health Officer	Yes	Contains general requirements
(3-10)(16-58)(96.06)	Enforcement - Variances	Yes	Contains general requirements
(3-11)(16-51)(96.04)	Severability	Yes	Contains general requirements
(3-12)(16-48)(96.01)	Words, Phrases Substituted in State Regulations Adopted by Reference	Yes	Contains general requirements
(3-13)(16-61)(96.25)	Right Of Entry	Yes	Contains general requirements
(3-16)(16-50)(96.03)	Open Burning	Yes	Contains general requirements
(3-18)(16-89)(96.10)	Fugitive Dust	Yes	Contains general requirements
(3-19)(16-88)(96.09)	Nuisance Abatement	Yes	Contains general requirements
(3-35)(16-71)(96.08)	Created; Membership; Term of Office; Jurisdiction; Hearings; Appeals	Yes	Contains general requirements

(14.5-27-28, 30-32, 34-36)(16-93 through 100) (96.26-96.33)	Permits and Fees (Various)	Yes	Contains general requirements
(14.5-35)(16-101)(96.99)	Penalty Provisions	Yes	Contains general requirements
(14.5-36)(16-102)(96.33)	Annual Review of Fee Structure and Financial Need	Yes	Contains general requirements

Carrier Corporation
(Title V Operating Permit No. 00083-01TV(R))

Federal Applicable Requirements Overview

CFR Part	Description	Applicable Req.	Notes
40 CFR 50.1 — 50.18	National Primary and Secondary Ambient Air Quality Standards	Yes	Contains general requirements
40 CFR 52.21	Prevention of Significant Deterioration of Air Quality	Yes	Contains general requirements for PSD sources. This Carrier facility is a major source of VOCs.
40 CFR 54	Prior Notice of Citizen Suits	Yes	Contains general requirements
40 CFR 60 (Subpart A)	Standards of Performance for New Stationary Sources: General Provisions	Yes	Contains general requirements applicable to Boiler B-4 (EU-12)
40 CFR 60 (Subpart Dc)	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Yes	Contains specific requirements applicable to Boiler B-4 (EU-12)
40 CFR 60 (Subpart IIII)	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	Yes	Contains specific requirements applicable to the 132 HP emergency fire pump engine that replaced an older 170 HP emergency fire pump engine at this facility in 2015.
40 CFR 63 (Subpart A)	NESHAP: General Provisions	Yes	Contains general requirements
40 CFR 63 (Subpart NNNN)	National Emission Standards for Hazardous Air Pollutant Emissions: Surface Coating of Large Appliances	NA	The potential to emit HAPs from this facility (Reference Title V permit renewal application, dated April 13, 2009 (potential to emit calculations) is below the major source threshold (Reference § 63.2); therefore, this rule is not applicable.
40 CFR 63 (Subpart ZZZZ)	National Emission Standards for Hazardous Air Pollutant Emissions for Reciprocating Internal Combustion Engines	Yes	Contains specific requirements applicable to 462 HP emergency generator and a 132 HP emergency fire pump engine at this facility
40 CFR 63 (Subpart DDDDD)	National Emission Standards for Industrial/Commercial/Institutional Boilers and Process Heaters	NA	The potential to emit HAPs from this facility (Reference Title V permit renewal application, dated April 13, 2009 (potential to emit calculations) is below the major source threshold (Reference § 63.2) since this rule was published in the Federal Register on March 21, 2011; therefore, this rule is not applicable.
40 CFR 63 (Subpart JJJJJ)	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	NA	The boiler at this Carrier facility is not subject to this area source NESHAP pursuant to §63.11195(e), which exempts gas-fired boilers as defined in subpart under §63.11237.
40 CFR 66	Assessment and Collection of Noncompliance Penalties by EPA	Yes	Contains general requirements
40 CFR 70	State Operating Permit Programs	Yes	Contains general requirements for Title V major source operating permits. This Carrier facility is a Title V major source.

40 CFR 82 (Subpart A)	Protection of Stratospheric Ozone — Production and Consumption Controls	Yes	This Carrier facility has air conditioners and/or re Fridgeration units that use ozone depleting substances (ODS). Facility personnel do not maintain, service, repair, and/or dispose of motor vehicle air conditioners. Generic permit language requirements are included in the Title V operating permit for this facility. These regulations are not applicable to the construction of the Fluidized Bed Parts Cleaner (EU-21) and are not included within the construction permit.
40 CFR 82 (Subpart C)	Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances	Yes	
40 CFR 82 (Subpart E)	The Labeling of Products Using Ozone Depleting Substances	Yes	
40 CFR 82 (Subpart F)	Recycling and Emissions Reduction	Yes	