NOTICE OF PUBLIC COMMENT PERIOD REGARDING RENEWAL/MODIFICATION OF A MAJOR SOURCE OPERATING PERMIT FOR AN EXISTING MANUFACTURING FACILITY IN HUNTSVILLE, ALABAMA

National Copper, LLC DBA National Copper & Smelting has applied to the Division of Natural Resources (DNR) for renewal/modification of its Major Source Operating Permit for the existing copper tubing manufacturing facility located at 3333 Stanwood Boulevard in Huntsville, Alabama.

This facility is subject to the requirements of Chapter 14.5, Subpart T of the City of Huntsville Air Pollution Control Regulations (COHRAR) – “National Emission Standards for Halogenated Solvent Cleaning.” These requirements are incorporated into the facility’s current Major Source Operating Permit (MSOP) and include equipment design, monitoring, and record-keeping requirements as well as work practice requirements. National Copper & Smelting is currently operating in compliance with the provisions of its Permit and the underlying requirements of COHRAR. Natural Resources is proposing to renew/modify the facility’s existing MSOP. The only substantive changes to the facility’s current Permit included in the Draft renewal are associated with the replacement of a waste heat boiler by a standalone natural gas-fired boiler (less than 1 MMBtu/hr) used to heat the halogenated solvent cleaning process. The boiler is subject to federal National Emission Standards for Hazardous Air Pollutants (NESHAP) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters codified as 40 CFR Part 63 Subpart DDDDDD. Requirements imposed by the NESHAP include work practice, recordkeeping, and reporting requirements.

A Public Comment period, which begins upon publication of this Public Notice, has been established in order to give interested individuals an opportunity to provide additional information or comments. If significant comments are received, a hearing may be scheduled. Information regarding emissions, applicable Air Pollution Control Regulations and emission control requirements is available at the Huntsville Natural Resources office or by contacting Natural Resources at (256) 427-5750. Any person wishing to provide written comments may do so by writing S. Cardno, Division of Natural Resources, City of Huntsville, P.O. Box 308, Huntsville, Alabama, 35804. All comments must be received by 5:00 P.M, November 1, 2021, or thirty (30) days from publication of this Notice, whichever is later.

The scope of this public comment period is limited to air pollution and its effects. Comments relative to site selection or economic and social impacts are not within the scope of this public comment period.
STATEMENT OF BASIS
National Copper, LLC
dba National Copper & Smelting
Huntsville, Madison County, Alabama
Facility Permit No. 7-09-P127-Z001
Renewal/Modification

DESCRIPTION OF PROPOSED PERMIT ACTION

On March 21, 2021, the City of Huntsville Department of Natural Resources and Environmental Management (DNREM) received an application to renew/modify the Title V Major Source Operating Permit (MSOP) for the National Copper & Smelting facility (National Copper) located at 3333 Stanwood Boulevard in Huntsville, Madison County, Alabama. This proposed renewal/modification to the existing MSOP will be issued under the provisions of the City of Huntsville Air Pollution Control Rules and Regulations Part 3.9. The modification to the MSOP will include the replacement of a waste heat boiler used to heat the halogenated solvent cleaning process (vapor degreaser) with a standalone boiler for the same purpose. The boiler is rated less than one million BTU per hour (< 1 MMBtu/hr). The new boiler is subject to work practice, recordkeeping, and reporting requirements contained in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters codified as 40 CFR Part 63 Subpart DDDDD. The applicant has requested authorization to perform the work and operate the facility as described in the application available in the permit file with the DNREM, in accordance with the terms and conditions of the permit.

BACKGROUND

National Copper is an existing copper redraw facility (SIC 3351), which manufactures copper tubing. Significant sources of air pollutants at this facility result from the halogenated solvent cleaning process (trichloroethylene vapor degreasing), mineral spirits used for tube and tool cleaning, and natural gas combustion in the process heat boiler and other miscellaneous sources.

PERMITTING HISTORY

The initial MSOP was issued on October 22, 1996, and several renewals/modifications have been issued since, with the most recent MSOP being issued on October 22, 2016. No major changes to the facility’s operations has occurred since initial MSOP issuance.

The facility is currently operating in full compliance with the terms and conditions of their existing MSOP.

FEDERAL APPLICABLE REGULATIONS

Title V: When originally permitted, the National Copper facility was classified as a major source under the Title V regulations due to potential hazardous air pollutant (HAP) (trichloroethylene) emissions exceeding the major source HAP thresholds. The facility is a true minor Title V source with regard to criteria pollutants. The modifications requested in this permitting effort do not change the Title V major source status of the facility.
STATEMENT OF BASIS
National Copper, LLC
dba National Copper & Smelting
Huntsville, Madison County, Alabama
Facility Permit No. 7-09-P127-Z001
Renewal/Modification

Prevention of Significant Deterioration (PSD) of Air Quality: The National Copper facility is located in an attainment area for all criteria pollutants. At original permitting of the facility, emissions limitations below the PSD thresholds were not imposed in the facility’s permit to construct and operate, as well as subsequent MSOPs, since potential emissions of all criteria pollutants are well below the applicable PSD thresholds. The modifications requested in this permitting effort do not impact the facility’s ability to remain a true minor source with regard to PSD.

New Source Performance Standards (NSPS):

The natural gas-fired emergency generator at the National Copper facility is subject to NSPS Subpart JJJJ for Spark Ignition Internal Combustion Engines. National Copper is required to track/record emergency and non-emergency use hours through the use of a non-resettable hour meter and maintain maintenance records on the engines to comply with operational limitations required by this standard for emergency engines. National Copper demonstrates compliance with the applicable emissions limitations imposed by this standard through certification from the engine manufacturer.

National Emissions Standards for Hazardous Air Pollutants (NESHAP): National Copper is considered a major source for HAPs due to potential emissions of trichloroethylene exceeding the major source HAP thresholds.

The National Copper facility is subject to NESHAP Subpart T for Halogenated Solvent Cleaning. The facility operates a halogenated solvent (trichloroethylene) cleaning operation using a fully enclosed open top vapor cleaning machine equipped with a superheated vapor system, a freeboard ratio of 1.0, a primary condenser, a high vapor level safety switch that shuts off the sump heater if the vapor level rises above the primary condenser, and a low level safety switch that shuts off the sump heater if the sump liquid solvent level drops to the sump heater coils. National Copper is required to maintain a reduced room draft, temperature of the superheated vapor zone above the solvent boiling point, and ensure parts remain within the superheated vapor zone for the appropriate amount of time. Limitations on part/basket travel speed and percent of the solvent/air interface occupied by parts/baskets are in place. Work practice standards are also in place for draining of solvent from parts/baskets and operation of the primary condenser. Solvent transfer and system maintenance, operator training/testing, and monitoring and recordkeeping provisions of all aforementioned requirements are included in the MSOP. National Copper is in compliance with these requirements.

The natural gas-fired boiler replacing the previously permitted waste heat boiler at the facility, which is used to heat the halogenated solvent cleaning operation (vapor degreaser), is subject to the major source NESHAP Subpart DDDDD for Industrial, Commercial, and Institutional Boilers and Process Heaters, as the facility is a major source of HAPs. National Copper is required to perform a regular five-(5)-year tune-up on the boiler and maintain records of the tune-up activities...
to comply with this standard. The facility is required to report the dates of the most recent tune-up in the required five-(5)-year compliance assessment.

The emergency generator at the National Copper facility is subject to NESHAP Subpart ZZZZZ for Reciprocating Internal Combustion Engines (RICE). National Copper is required to track/record emergency and non-emergency use hours through the use of a non-resettable hour meter and maintain maintenance records on the engine to comply with operational limitations required by this standard for emergency engines. National Copper demonstrates compliance with the applicable emissions limitations imposed by this standard through certification from the engine manufacturer.

DNREM APPLICABLE REGULATIONS

Visible Emissions (CoH APC RAR, Chapter 6.1): The National Copper facility is subject to DNREM’s visible emission standards for stationary sources. There are no significant sources of particulate emissions from the facility, and all combustion sources at the facility only fire natural gas. National Copper is in compliance with this requirement.

Objectionable Odors (CoH APC RAR Chapter 6.7). The National Copper facility is subject to DNREM’s objectionable odor standard. The only potential sources of odors at the facility are related to solvent usage. The facility ensures compliance with this standard through maintaining compliance with the NESHAP Subpart T equipment design requirements, work practice standards, and monitoring and mandatory maintenance requirements.

RECORDKEEPING

National Copper is required to keep all records required by the MSOP for no less than five (5) years unless otherwise stated.

With regard to the new natural gas-fired boiler, National Copper is required to perform and keep record of the periodic tune-ups on the boiler and keep on file the required periodic compliance certifications required by Subpart DDDDD.

With regard to the halogenated solvent cleaning process (vapor degreaser), National Copper is required to keep written maintenance and operating procedures or owner’s manuals and record of the installation date for the solvent cleaning machine (for the lifetime of the machine), as well as records of all monitoring activities required by the MSOP, halogenated HAP (trichloroethylene) and other solvent usage, and mandatory repairs and adjustments (for no less than five (5) years).

National Copper is in compliance with these requirements.
STATEMENT OF BASIS
National Copper, LLC
dba National Copper & Smelting
 Huntsville, Madison County, Alabama
 Facility Permit No. 7-09-P127-Z001
 Renewal/Modification

REPORTING

National Copper is required to prepare and submit semi-annual monitoring reports and annual compliance certifications to DNREM detailing relevant data collected to verify compliance with work practice, equipment operation, and monitoring standards as required by the MSOP and compliance status with all MSOP requirements. National Copper is in compliance with these requirements.

COMPLIANCE ASSURANCE MONITORING (CAM)

There are no CAM requirements associated with the modifications requested in this permitting effort or with the facility’s operations in general.

PUBLIC NOTICE

The issuance of the modification of National Copper’s Title V MSOP requires a thirty-(30)-day public comment period and a forty-five-(45)-day EPA review period.

RECOMMENDATION

The Statement of Basis indicates that all the facility will meet the requirements of all federal and City of Huntsville Rules and Regulations, as described. Therefore, I recommend that the Title V MSOP be issued to National Copper, and include the necessary updates to the emission source listing and provisos (addition of standalone natural gas-fired boiler), pending the full receipt of fees associated with this permitting effort and resolution of any comments received during the public comment and EPA review periods described above.

Darlene Duerr, Deputy Director
Department of Natural Resources and Environmental Management
City of Huntsville
MAJOR SOURCE OPERATING PERMIT

Issued to: National Copper, LLC dba National Copper & Smelting

Location: 3333 Stanwood Boulevard

Huntsville, Alabama 35811

Permit Number(s): 7-09-P127-Z001

Description of Source(s):
- Manufacturing of Narrow Copper Tubing
- Halogenated Solvent Cleaning
- Natural Gas-Fired Boiler (< 1 MMBtu/hr)
- Miscellaneous Natural Gas-Fired Combustion Sources
- Natural Gas-Fired Emergency Generator

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Code of Alabama 1975, 22-23-1 to 22-23-23 (the "AAPCA") and the Alabama Environmental Management Act, as amended, Code of Alabama 1975, 22-22A-1 to 22-22A-16, and rules and regulations adopted thereunder, and the City of Huntsville Air Pollution Control Rules and Regulations, Ordinance 72-150, as amended ("COHRAP") and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to operate the equipment, device(s) or other article(s) described above.

Pursuant to the Clean Air Act of 1990, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management ("ADEM"), the City of Huntsville Division of Natural Resources and Environmental Management ("the Department"), and citizens in general. Those provisions which are not required under the Clean Air Act of 1990 are considered to be local permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.

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Date of Issuance: DRAFT

Expiration Date: DRAFT

DIRECTOR

NATURAL RESOURCES AND ENVIRONMENTAL MANAGEMENT DIVISION
CITY OF HUNTSVILLE, ALABAMA
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NATIONAL COPPER, LLC DBA NATIONAL COPPER & SMELTING
3333 Stanwood Boulevard
Huntsville, Alabama 35811

I. FEDERALLY ENFORCEABLE GENERAL (FACILITY-WIDE) PERMIT CONDITIONS

I.A. General Air Pollution Control Requirements

1. Duty to Comply

(A) The permittee shall comply with all conditions of COHRAR. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990, and COHRAR, and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee. [COHRAR §§ 3.1.4; 3.9.5(h)]

(B) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity. [COHRAR § 3.9.5(i)]

2. Additional Rules and Regulations

This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder’s responsibility to comply with such rules. [COHRAR § 3.1.4]

3. Schedule of Compliance

(A) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. [COHRAR §§ 3.1.4; 3.9.5(r)]

(B) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. [COHRAR §§ 3.1.4; 3.9.5(r)]

4. Operation of Capture and Control Devices

All air pollution control devices and capture systems for which this Permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established. [COHRAR § 1.12.1]
5. **Circumvention**

The permittee shall not cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate this Permit or COHRAR. [COHRAR § 1.15]

6. **Opacity Limitations**

(A) The permittee shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant of a shade or density darker than that designated as 20 percent opacity. [COHRAR § 6.1.1]

(B) Compliance with opacity standards shall be determined by conducting observations in accordance with Reference Method 9 in 40 CFR Part 60, Appendix A. [COHRAR § 6.1.2]

I.B. **General Monitoring, Inspection, Record-Keeping and Reporting Requirements**

1. **Monitoring, Records and Reporting**

(A) The Director may require the permittee to establish and maintain records; make reports; install, use and maintain monitoring equipment or methods; sample emissions in accordance with such methods, at such locations and intervals, and using such procedures and provide such emissions reports as are prescribed by the Director to demonstrate compliance with the terms of this Permit and with COHRAR [COHRAR § 1.9.1]

(B) Records and Reports as the Director shall prescribe on air contaminants or fuel shall be recorded, compiled and submitted on forms provided by the Director or in formats approved by the Director. [COHRAR § 1.9.2]

(C) All required sampling and testing shall be made and the results calculated in accordance with sampling and testing procedures and methods approved by the Director. All required samples and tests shall be made under the direction of persons qualified by training and/or experience in the field of air pollution control. To the extent practicable, test methods and procedures established by Part 60, Part 61 and Part 63 of Title 40 of the Code of Federal regulations, as the same may be amended or revised, shall be employed. [COHRAR §§ 1.10.1; 1.10.2]

2. **Inspection and Entry**

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the City of Huntsville Division of Natural Resources & Environmental Management to conduct the following:
(A) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; [COHRAR §§ 1.8; 3.9.5(q)(1)]

(B) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; [COHRAR §§ 1.8; 1.9, 3.9.5(q)(2)]

(C) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; [COHRAR §§ 1.8; 3.9.5(q)(3)]

(D) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. [COHRAR §§ 1.10.3; 3.9.5(q)(4)]

3. **Recordkeeping Requirements**

   All monitoring records maintained pursuant to this Permit shall include the following information, as appropriate: [COHRAR § 3.9.5(d)(1)]

   (A) The date, time and location of all sampling or measurements;

   (B) The date(s) analyses were performed;

   (C) The company or entity that performed the analyses;

   (D) The analytical techniques or methods used;

   (E) The results of all analyses; and

   (F) The operating conditions that existed at the time of sampling or measurement.

4. **Records Retention**

   Records of all required monitoring data and support information shall be retained by the permittee for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this Permit. [COHRAR § 3.9.5(d)(2)]

5. **Display of Permit**

   The permittee shall keep this Permit under file or on display at all times at the permitted facility and shall make this Permit available for inspection by any and all persons who may request to see it. [COHRAR § 3.1.7]
6. **Semi-Annual Monitoring Report Submission**

On a semi-annual basis, the permittee shall submit monitoring reports to the Department which contain the results of all monitoring specifically required by Part III of this Permit. All instances of deviations from permit requirements of this Permit shall be clearly identified in the monitoring reports and must be certified by a responsible official in accordance with Part I.B.7. of this Permit. These monitoring reports shall be submitted not later than May 1 and November 1 of each year. Submittal of the monitoring report due no later than May 1 may coincide with submittal of the Annual Compliance Certification required by Part I.B.8. of this Permit and the payment of Annual Emissions Fees in accordance with Part I.C. of this Permit. The report due on May 1 shall cover the monitoring period from October 1 of the previous year through March 31 of the year of submission. The report due on November 1 shall cover the monitoring period from April 1 through September 30. [COHRAR § 3.9.5(e)(1)]

7. **Certification of Truth, Accuracy, and Completeness**

Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. [COHRAR §§ 3.9.4(a); 3.9.5(p)]

8. **Compliance Certification**

A compliance certification shall be submitted annually at the time of annual emissions fees payments made pursuant to LC of this Permit. The permittee shall provide a means for monitoring the compliance of its air pollution sources with the emissions limitation, standards and work practices listed or referenced within this Permit. [COHRAR § 3.9.5(o)]

(A) The compliance certification shall include the following:

(1) The identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance has been continuous or intermittent;

(4) The method(s) used for determining the compliance status of the source, currently and over the reporting period, consistent with COHRAR §§ 3.9.5(c) and 3.9.5(d) (Monitoring and Record Keeping Requirements), and the specific terms included in Part III of this Permit;
(B) The compliance certification shall be submitted to the Department and to the Environmental Protection Agency (EPA) at the following addresses:

City of Huntsville
Division of Natural Resources & Environmental Management
P. O. Box 308
Huntsville, AL 35804

and to:

Air and EPCRA Enforcement Branch
EPA Region 4
61 Forsyth Street, S. W.
Atlanta, GA 30303

9. **Non-compliance Reporting**

The permittee shall report deviations from requirements of this Permit within two (2) working days of such deviations, unless a shorter reporting time is specified in this Permit (e.g. for equipment malfunction reporting pursuant to I.B.10(B) of this Permit). The report shall include the probable cause of the deviation and describe corrective actions or preventive measures that were taken. [COHRAR § 3.9.5(e)(2)]

10. **Equipment Maintenance or Breakdown**

(A) In case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than one (1) hour, the intent to shut down shall be reported to the Department at least 24 hours prior to the planned shut-down. The Department shall be notified when maintenance on the air pollution control equipment is complete and the equipment is operating. [COHRAR § 1.12.1]

(B) In the event there is a breakdown of equipment in such a manner as to cause increased emission of air contaminants for a period greater than one (1) hour, the person responsible for such equipment shall notify the Department within an additional 24 hours and provide a statement giving all pertinent facts, including the duration of the breakdown. The Department shall be notified when the breakdown has been corrected. [COHRAR § 1.12.2]

11. **Progress Reports**

If any air pollution source owned or operated by the permittee is not in compliance with the emissions limitations, standards and work practices listed or referenced within this permit, the permittee shall submit a progress report for that air pollution source. The first schedule of compliance shall be submitted within three (3) months of the date the permittee or Department determines that the air pollution source is not in compliance. Subsequent reports shall be submitted every sixth month following the initial report. The
progress reports shall contain the following: [COHRAR § 3.9.5(s)]

(A) Dates for achieving the activities, milestone, or compliance required in the schedule of compliance, and/or dates when such activities, milestones or compliance were achieved;

(B) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

I.C. Fee Payments

1. Annual Emissions Fees

On an annual basis the permittee shall:

(A) pay emissions fees based on actual emissions of each regulated air pollutant, except carbon monoxide, emitted during the preceding calendar year; [COHRAR § 3.7.4(c)]

(B) determine emissions fees payments at the rate of $25 per ton of each regulated air pollutant, plus the difference in the CPI (Consumer Price Index) of the year the fees are assessed and the CPI for 1989; [COHRAR § 3.7.4(c)]

(C) make payment of annual emissions fees on or before May 1 of each calendar year; [COHRAR § 3.7.5(a)]

(D) pay a late fee of 3% of the original fee per month or fraction thereof if fees are not paid within 30 days of the due date; and [COHRAR § 3.7.5(d)]

(E) make fees and remittances payable to the City of Huntsville. [COHRAR § 3.7.5(e)]

(F) All fees paid pursuant to COHRAR Part 3.7 shall be non-refundable. [COHRAR § 3.7.5(d)]

2. Fee Payments

For this Permit to remain effective, all applicable fees must be paid in accordance with COHRAR Parts 3.6 and 3.7. [COHRAR § 3.9.5(m)]

3. Conflict With State Law

In the event there is a conflict between State law or the regulations promulgated there to and the fee schedule included in I.C.1. and I.C.2. of this Permit, then the fee schedule established under State law shall take precedence. [Act 2000-798, amending § 22-28-23(g), ALA. CODE, 1975; COHRAR §§ 3.6.8; 3.7.4(g)]
I.D. Permit Modification, Renewal and Termination

1. Transfer

This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in COHRAR § 3.9.11(a)(1)(v). [COHRAR § 3.1.5]

2. New Air Pollution Sources

(A) A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants. [COHRAR § 3.1.2(a)]

(B) Every application for a permit shall be filed in the manner and form prescribed by the Director and shall give all the information necessary to enable the Director to make the determination required by COHRAR Part 3.3. [COHRAR § 3.2.1]

3. Alternative Operating Scenarios

For those alternative operating scenarios identified in Part III of this Permit as acceptable, the permittee shall: [COHRAR § 3.9.5(o)]

(A) Record the change from one operating scenario to another in a log at the permitted facility. The recording of the change shall be made contemporaneously with the change, and the log shall contain the scenario under which the facility is currently operating.

(B) Ensure that terms and conditions of each alternative operating scenario meet all the requirements of this permit, as well as COHRAR Part 3.9.

4. Economic Incentives

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. [COHRAR § 3.9.5(n)]

5. Submittal of Information

The permittee must submit to the Department, within 30 days or such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit. [COHRAR § 3.9.5(l)]
6. **Renewals**

(A) This permit is issued for a fixed period of five (5) years. An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit. [COHRAR §§ 3.9.5(b); 3.9.2(c)]

(B) Authorization to operate the permitted facility shall terminate upon the expiration of this Permit unless a timely and complete renewal application has been submitted. If a timely and complete application for renewal is submitted, but the Director fails to take action to issue or deny the renewal permit before the end of the term of this Permit, then this Permit shall not expire until the renewal permit has been issued or denied. [COHRAR § 3.9.10(b)]

7. **Termination 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 will not stay any permit condition. [COHRAR §§ 3.2.5; 3.9.5(j)]

8. **Reopening for Cause**

Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit. [COHRAR § 3.9.11(e)]

(A) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.

(B) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.

(C) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(D) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

9. **Revocation for Cause**

This Permit may be revoked for any of the following causes: [COHRAR § 3.2.5]
(A) failure to comply with any condition of this Permit or COHRAR;

(B) failure to notify the Director prior to operation of any article, machine, equipment or other contrivance subject to the requirements of COHRAR § 3.1.2(a);

(C) failure to establish and maintain such records, make such reports, install, use and maintain such monitoring equipment or methods; and sample such emissions in accordance with such methods at such locations, intervals and procedures as the Director may prescribe in accordance with COHRAR § 1.9.2;

(D) failure to allow the Director or his authorized representative upon proper identification to:

1. enter any premises, at reasonable times, where any article, machine, equipment or other contrivance described in COHRAR § 3.1.2 is located or in which any records required to be kept by this Permit or by COHRAR are located;

2. have access to and copy any records required to be kept by this Permit or by COHRAR;

3. inspect any monitoring equipment or practices being maintained pursuant to this Permit or COHRAR;

4. have access to and sample any discharge of air contaminants resulting directly or indirectly from the operation of any article, machine, equipment or other contrivance described in COHRAR § 3.1.2.

(E) failure to comply with the provisions of an administrative order issued by the Director concerning the permitted facility;

(F) for any other cause, after a hearing which establishes, in the judgement of the Director, that continuance of this Permit is not consistent with the purpose of the Act or regulations under it, or is not consistent with the purposes of the Federal Clean Air Act or regulations under it.

10. **Expiration of Air Permits**

All Air Permits issued to the permittee prior to the effective date of this Permit shall expire immediately following the issuance of this Permit. [COHRAR § 3.2.6(a)]

I.E. **Emergency Provisions**

1. **Emergency Procedure**

The permittee shall comply with the provisions of an emergency order to immediately
reduce or discontinue the emission of air contaminants, if the Director finds that such action is necessary to protect human health or safety, in accordance with COHRAR Part 2.9. [COHRAR §§ 2.9.1, 2.9.2]

2. **Emission Reduction Standby Plan**

Within 30 days of receipt of a written request from the Director, the permittee shall prepare and submit a standby plan for reducing the emissions of air contaminants during periods of an Episode Alert, Warning and Emergency. The standby plan is subject to approval by the Director. [COHRAR § 2.8.5]

I.F. **Miscellaneous Provisions**

1. **Property Rights**

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. [COHRAR § 3.9.5(k)]

2. **Severability**

The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered. [COHRAR § 3.9.5(g)]

3. **Authority of Department**

Nothing in the permit or conditions thereto shall negate any authority granted to the Division of Natural Resources or the Alabama Department of Environmental Management pursuant to the Alabama Environmental Management Act or regulations issued thereunder. [§/22-28-23, ALA. CODE, 1975]

II. **NON-FEDERALLY ENFORCEABLE GENERAL (FACILITY-WIDE) PERMIT CONDITIONS**

II.A. **Objectionable Odors**

This permit is issued with the condition that the operation of this facility by the owner or operator will not result in the emission of objectionable odors as defined in COHRAR Part 6.7. [COHRAR Part 6.7]
III. FEDERALLY ENFORCEABLE SOURCE SPECIFIC CONDITIONS

Halogenated Solvent Cleaning Operations Using a Fully Enclosed Open Top Vapor Cleaning Machine Equipped with a Superheated Vapor System, a Freeboard Ratio of 1.0, a Primary Condenser, a High Vapor Level Safety Switch That Shuts Off the Sump Heater if the Vapor Level Rises Above the Primary Condenser, and a Low Level Safety Switch that Shuts Off the Sump Heater if the Sump Liquid Solvent Level Drops to the Sump Heater Coils.

III.A. Equipment Design Requirements

1. Reduced Room Draft

The permittee shall ensure that emissions of halogenated solvents from the cleaning machine are controlled by maintaining a reduced room draft, as described in 40 CFR 63.463(e)(2)(ii). The flow of air across the top of the freeboard area of the solvent cleaning machine shall not exceed 50 feet per minute. Operating conditions under which compliance with this standard has been demonstrated shall be established and maintained. [COHRAR Part 14.5 Subpart T, §§ 63.463(a)(1)(ii), 63.463(b)(2)(i), 63.463(e)(2)(ii)]

2. Superheated Vapor System

The permittee shall ensure that emissions of halogenated solvents from the cleaning machine are controlled by operation of a superheated vapor system, as described in 40 CFR § 63.463(e)(2)(vi). The temperature of the solvent vapor at the center of the superheated vapor zone shall be maintained at least 10 degrees Fahrenheit above the solvent boiling point. Manufacturer's specifications for determining the proper dwell time within the superheated vapor zone shall be followed, and operators of the solvent cleaning machine shall ensure that parts remain within the superheated vapor zone for at least the minimum proper dwell time. [COHRAR Part 14.5, Subpart T, §§ 63.463(b)(2)(i), 63.463(e)(2)(vi)]

3. Operation of Automated Parts Handling System

A properly operated and maintained automated parts handling system, as defined in 40 CFR § 63.461, shall be utilized to carry parts through the halogenated solvent cleaning process. The travel speed of parts (or parts baskets) shall not exceed 11 feet per minute from the initial loading of parts through removal of cleaned parts from the halogenated solvent cleaning machine. [COHRAR Part 14.5 Subpart T, §§ 63.461, 63.463(a)(3)]
III.B. Work Practice Standards

1. **Control of Air Disturbances**

   The permittee shall control air disturbances across the cleaning machine openings by use of reduced room draft, as described in 40 CFR § 63.463(e)(2)(ii). (See Item III.A.1. of this Permit) [COHRAR Part 14.5, Subpart T, §§ 63.463(a)(1)(ii), 63.463(b)(2)(i), 63.463(d)(1)(ii), 63.463(e)(2)(ii)]

2. **Size of Parts Baskets**

   The parts baskets or the parts being cleaned in the solvent cleaning machine shall not occupy more than 50 percent of the solvent/air interface unless the parts basket or parts are introduced at a speed of 3 feet per minute or less. [COHRAR Part 14.5 Subpart T, § 63.463(d)(2)]

3. **Orientation of Parts Being Cleaned**

   Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from the solvent cleaning machine. [COHRAR Part 14.5 Subpart T, § 63.463(d)(4)]

4. **Drout Control**

   Parts baskets or parts shall not be removed from the solvent cleaning machine until dripping has stopped. [COHRAR Part 14.5 Subpart T, § 63.463(d)(5)]

5. **Startup and Shutdown**

   The primary condenser shall be turned on before the sump heater during each startup period. The sump heater shall be turned off and the solvent vapor layer shall be allowed to collapse before the primary condenser is turned off during each shutdown period. [COHRAR Part 14.5 Subpart T, §§ 63.463(d)(6), 63.463(d)(7)]

6. **Addition and Removal of Solvent**

   Solvent shall be transferred using threaded or other leak-proof couplings and the end of the pipe in the solvent sump shall be located below the liquid solvent surface when solvent is added or drained from the cleaning machine. [COHRAR Part 14.5 Subpart T, § 63.463(d)(8)]

7. **Cleaning Machine Maintenance**

   The solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturer(s) of the equipment. [COHRAR Part 14.5 Subpart T, § 63.463(d)(9)]
8. **Operator Training and Testing**

Each operator of the solvent cleaning machine shall complete and pass the applicable sections of the test on solvent cleaning operating procedures found in 40 CFR Part 63, Appendix B, if requested during an inspection by the Department. The permittee shall provide training to all operators of solvent cleaning machines and associated control devices which is sufficient to ensure that the operators are able to pass this test. [COHRAR Part 14.5 Subpart T, § 63.463(d)(10)]

9. **Waste Storage**

Waste solvent, still bottoms and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a pressure relief device that does not allow liquid solvent to drain from the container. [COHRAR Part 14.5 Subpart T, § 63.463(d)(11)]

10. **Cleaning of Porous Materials Prohibited**

Porous or absorbent materials such as sponges, fabric, wood, paper products, leather and rope shall not be cleaned in the solvent cleaning machine. [COHRAR § 3.1.4; Part 14.5, Subpart T, § 63.463(d)(12)]

III.C. **Monitoring Requirements**

1. **Superheated Vapor System**

On a weekly basis, the permittee shall use a thermometer or thermocouple to measure the temperature at the center of the superheated vapor zone while the cleaning machine is in the idling mode and shall record the results of such measurement. [COHRAR Part 14.5 Subpart T, § 63.466(a)(2)]

2. **Automated Parts Handling System**

On a monthly basis, the permittee shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance traveled (in feet) divided by the time in minutes (feet per minute). The results of hoist speed measurements shall be recorded. The monitoring frequency may be decreased from monthly to quarterly if no exceedances of the 11 feet per minute hoist speed limit are measured for 12 consecutive months. If an exceedance of the hoist speed limit is measured during quarterly monitoring, the monitoring frequency reverts to monthly until 12 consecutive months without a measured exceedance is demonstrated. [COHRAR Part 14.5 Subpart T, § 63.466(c)]
3. **Reduced Room Draft**

The permittee shall conduct an initial performance test, and monthly tests thereafter, of the wind speed within the enclosure. Wind speed measurements shall be made by determining the direction of the wind current in the enclosure by slowly rotating a velocimeter inside the entrance to the enclosure until the maximum speed is determined. The maximum speed shall be recorded. In addition, monthly inspections of the enclosure shall be performed to determine that it is free of cracks, holes and other defects. [COHRAR Part 14.5 Subpart T, § 63.466(d)(2)]

**III.D. Mandatory Adjustments or Repairs**

If the measured temperature of the superheated vapor zone is less than 10 degrees Fahrenheit above the solvent boiling point, the measured hoist speed exceeds 11 feet per minute or the measured wind speed inside the enclosure exceeds 50 feet per minute, adjustments or repairs to the cleaning machine shall be made to reestablish required levels. Such repairs or adjustments shall be completed within 15 days of measuring an exceedance. The parameter prompting the adjustments or repairs must be remeasured immediately upon completion of the corrective action taken and demonstrated to be within required limits. Parameter exceedances corrected within 15 days shall not be deemed violations of Part III.A. of this Permit. [COHRAR Part 14.5 Subpart T, § 63.463(e)(3)(ii)]

**III.E. Recordkeeping Requirements**

1. **Operation and Maintenance Procedures**

Written maintenance and operating procedures, or owner's manuals for the solvent cleaning machine shall be maintained for the lifetime of the machine. [COHRAR Part 14.5 Subpart T, § 63.467(a)(1)]

2. **Installation Date**

A record of the installation date for the solvent cleaning machine and all of its control devices shall be maintained for the lifetime of the machine. [COHRAR Part 14.5 Subpart T, § 63.467(a)(2)]

3. **Solvent Used**

Records of the halogenated HAP (Hazardous Air Pollutant) content of each solvent being used in the solvent cleaning machine shall be maintained. [COHRAR Part 14.5 Subpart T, § 63.467(a)(5)]
4. **Monitoring Results**

The results of all monitoring performed pursuant to Part III.C. of this Permit shall be maintained for a period of 5 years. [COHRAR Part 14.5 Subpart T, § 63.467(b)(1)]

5. **Records of Mandatory Repairs and Adjustments**

Records of actions taken to comply with the requirements of Part III.D of this Permit shall be maintained for a period of 5 years. As a minimum, the following information shall be included: records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels. [COHRAR Part 14.5 Subpart T, § 63.467(b)(2)]

6. **Records of Annual Solvent Usage**

A solvent make-up log, which includes the date of solvent additions or removals, the quantity of solvent added or removed, and identifies the operator adding or removing the solvent, shall be maintained to determine actual emissions of regulated pollutants from halogenated solvent cleaning operations. As an alternative, purchasing records and waste disposal records, in conjunction with an inventory of solvent on-site at the beginning and end of the calendar year, may be used to satisfy this requirement. As a minimum, purchasing and waste disposal records must indicate the type of solvent purchased or shipped off-site for disposal, the quantity of solvent purchased or shipped off-site for disposal, and the date of purchase or waste collection. [COHRAR § 1.9.1, Part 14.5 Subpart T, § 63.467(b)(3)]

III.F. **Solvent Cleaning Machine Natural Gas-Fired Boiler**

1. **Work Practice Standards**

   (A) The only fuels combusted in the boiler shall be natural gas. [COHRAR § 3.1.2(g)]

   (B) A tune-up shall be performed on the boiler every five (5) years. The first five-(5)-year tune-up must be performed no later than 61 months after initial startup and subsequent tune-ups performed no more than 61 months after the previous tune-up. As a minimum, the scope of the tune-up shall include the following: [COHRAR Part 14.5 Subpart DDDDD §§ 63.7515(d), 63.7540(a)(12), 63.7540(a)(10)(i) through (vi)]

   (1) Inspect the burner, and clean or replace any components of the burner as necessary.

   (2) Inspect the flame pattern, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
(3) Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly.

(4) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.

(5) Measure the concentrations in the effluent stream of carbon monoxide in parts per million by volume, and oxygen in volume percent, before and after adjustments are made. Measurements may be made on either a wet or dry basis, as long as the same basis is used before and after the adjustments are made.

2. Recordkeeping Requirements

(A) A record of the boiler tune-ups performed shall be maintained which includes, as a minimum, the following information: [COHRAR § 14.5 Subpart DDDD §§ 63.7540(a)(10)(vi)(A) through (C), 63.7540(a)(12)]

(1) The date the tune-up was performed.
(2) The individual or entity that performed the tune-up.
(3) The scope of work included in the tune-up.
(4) The concentration of carbon monoxide (CO) in the effluent stream in parts per million by volume, and oxygen (O2) in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
(5) A description of any corrective actions taken as a part of the tune-up.

(B) A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status must be kept in a form suitable and readily available for expeditious review for five (5) years following the date of occurrence (on site or accessible from on site for at least two (2) years). [COHRAR Part 14.5 Subpart DDDD §§ 63.7560(a) through (c)]

3. Reporting Requirements

(A) Compliance Reports:

(1) An initial compliance report covering the period beginning on the compliance date that is specified for the boiler or process heater as listed in 40 CFR §63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least five (5) years after the compliance date that is specified for the boiler in §63.7495. The compliance report shall include at a minimum the following information: [COHRAR Part 14.5 Subpart DDDD §§ 63.7550(b)(1), 63.7550(c)(5)(i) through (iv), (xiv), (xvii)]

(a) Company and Facility name and address.
(b) Process unit information, emissions limitations, and operating parameter limitations.
(c) Date of report and beginning and ending dates of the reporting period.
(d) The total operating time during the reporting period.

(e) The date of the most recent tune-up for each unit subject to only the requirement to conduct a five-(5)-year tune-up. Include the date of the most recent burner inspection if it was not done on a five-(5)-year period and was delayed until the next scheduled or unscheduled unit shutdown.

(f) If there were no deviations from the work practice standards during the reporting period, a statement that there were no deviations from the work practice standards during the reporting period. If there was a deviation from a work practice standard during the reporting period, the report must contain a description of the deviation and resolution.

(g) Statement by a responsible official with that official’s name, title, and signatures, certifying the truth, accuracy, and completeness of the content of the report.

(2) Subsequent five-(5)-year compliance reports must cover the five-(5)-year periods from January 1 to December 31. [COHRAR Part 14.5 Subpart DDDDD §§ 63.7550(b)(3)]

(B) Submittal of Reports:

(1) All compliance reports must be submitted to EPA (Region 4) electronically using CEDRI that is accessed through the EPA’s Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report you must submit the report to the Administrator at the appropriate address listed in 40 CFR §63.13 (EPA Region 4). At the discretion of the Administrator, you must also submit these reports to the Administrator in the format specified by the Administrator. [COHRAR Part 14.5 Subpart DDDDD §§ 63.7550(h)(3)]

(2) All compliance reports must be submitted to the City of Huntsville Department of Natural Resources and Environmental Management via hardcopy in the mail or electronically via email. [COHRAR § 1.9.1]

(3) The initial five-(5)-year compliance report must be postmarked or submitted no later than January 31. Subsequent five-(5)-year compliance reports must be postmarked or submitted no later than January 31. [COHRAR Part 14.5 Subpart DDDDD §§ 63.7550(b)(2) & (4)]

III.G. Natural Gas-Fire Emergency Generator

1. Operational Limitations

(A) The natural gas-fired generator engine is to be operated as an emergency stationary RICE (Reciprocating Internal Combustion Engines), as defined in 40 CFR § 63.6675, or as an emergency stationary ICE (Internal Combustion Engine) as defined in § 60.4248, as
applicable. [COHRAR § 3.1.2(g), Part 13.2 §§ 60.4243(d), 60.4248, Part 14.5 Subpart ZZZZ §§ 63.6640(f), 63.6675]

(B) In addition to operation in emergency situations, the natural gas-fired emergency engine may be operated for necessary maintenance checks and readiness testing provided that such operation does not exceed 100 hours per calendar year. The emergency engines may also be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours per year of non-emergency operation are counted as part of the 100 hours per calendar year for maintenance and readiness testing. Furthermore, the 50 hours per calendar year of non-emergency operation cannot be used for peak shaving or non-emergency demand response or to generate income for a facility to the power grid or otherwise supply power as part of a financial arrangement with another entity. [COHRAR Part 13.2 § 60.4243(d), Part 14.5 Subpart ZZZZ § 63.6640(f)]

(C) The emergency engine must meet the emissions limitations applicable to engines < 25 hp included in 40 CFR §60.4233(a). Certification by the engine manufacturer may be used to satisfy this requirement, but such certification does not preclude the Director from requiring emissions testing pursuant to paragraph L.B.1. [COHRAR §§ 60.4233(a), (d) and (e), 63.6590(e)(1)]

2. Monitoring Requirements

The natural gas-fueled emergency generator engine must be equipped with a non-resettable hour meter. [COHRAR Part 13.2 Subpart JJJJ § 60.4237, Part 14.5 Subpart ZZZZ § 63.6625(f)].

3. Record-keeping Requirements

(A) Records of all maintenance performed pursuant to the requirements of section III.G.4, below shall be maintained in a form suitable for inspection. [COHRAR Part 13.2 Subpart JJJJ § 60.4243(a)(1), Part 14.5 Subpart ZZZZ § 63.6655(e)]

(B) Records of the hours of operation of each natural gas-fired emergency generator engine must be maintained which are recorded through the non-resettable hour meters required by section III.G.2. above. These records shall include 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, including a description of the non-emergency operation sufficiently detailed to demonstrate that the restrictions on non-emergency operation included in paragraph III.G.1.(B) above have not been violated. [COHRAR § 1.9.1, Part 13.2 Subpart JJJJ § 60.4243(a)(1), Part 14.5 Subpart ZZZZ § 63.6655(f)]

4. Work Practice Requirements

The natural gas-fired generator emergency engine must be operated and maintained in accordance with the manufacturer’s recommendations. [COHRAR Part 13.2 Subpart JJJJ
III.H. Federal Stratospheric Ozone Protection Requirements

1. **Service, Repair and Maintenance of Equipment**

   The permittee shall service, repair and maintain all appliances and refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone depleting substances listed as refrigerants in 40 CFR 82, Subpart A, Appendices A and B, in accordance with the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Subpart F. [40 CFR Part 82, Subpart F; COHRAR § 3.9.5(a)]

2. **Prohibition on Venting**

   No person under the direct or indirect control of the permittee shall knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing or maintenance or disposal of any such appliance or refrigeration equipment except as provided in 40 CFR Part 82, Subpart F. [40 CFR Part 82, Subpart F; COHRAR § 3.9.5(a)]

3. **Reporting and Recordkeeping**

   The permittee shall comply with all reporting and recordkeeping requirements in 40 CFR § 82.166. [40 CFR § 82.166; COHRAR § 3.9.5(a)]

IV. **PERMIT SHIELD PROVISIONS**

   Not Applicable

V. **INSIGNIFICANT ACTIVITIES**

   Natural Gas-fired Space Heaters
   Mineral Spirits Cleaning Stations
   Natural Gas-Fired Annealing Furnace

VI. **COMPLIANCE SCHEDULE**

   The permittee shall achieve full compliance with the requirements of this Permit no later than:

   Effective Date of Permit